

CCD-TRV118/TRV218E/TRV318/TRV418/TRV418E

RMT-708

SERVICE MANUAL

Ver 1.0 2002. 11

Revision History



M2100/M2101 MECHANISM

Photo: CCD-TRV318

- US Model
- Canadian Model
- CCD-TRV118/TRV318
- AEP Model
- CCD-TRV218E/TRV418E
- UK Model
- CCD-TRV218E
- East European Model
- North European Model
- CCD-TRV218E/TRV418E
- E Model
- CCD-TRV118/TRV218E/TRV318/TRV418/TRV418E
- Hong Kong Model
- CCD-TRV218E
- Australian Model
- CCD-TRV218E/TRV418E
- Korea Model
- CCD-TRV418

Link

SPECIFICATIONS	BLOCK DIAGRAMS	PRINTED WIRING BOARDS
SERVICE NOTE	FRAME SCHEMATIC DIAGRAMS	REPAIR PARTS LIST
DISASSEMBLY	SCHEMATIC DIAGRAMS	

NTSC MODEL: CCD-TRV118/TRV318/TRV418
PAL MODEL: CCD-TRV218E/TRV418E

- For ADJUSTMENTS (SECTION 6), refer to SERVICE MANUAL, ADJ (987625751.pdf).
- INSTRUCTION MANUAL is shown at the end of this document.
- For MECHANISM ADJUSTMENTS, refer to the “8mm Video MECHANICAL ADJUSTMENT MANUAL IX M2000 MECHANISM” (9-929-861-11).
- Reference No. search on printed wiring boards is available.
- Table for differences of function of each model.
- When the machine needs to be repaired, make sure to follow the items of “LCD TYPE CHECK”.
- HELP: Sheet attachment positions and procedures of processing the flexible boards/harnesses are shown.

Hi8 VIDEO CAMERA RECORDER

SONY®



SPECIFICATIONS

Video camera recorder

System

Video recording system

2 rotary heads
Helical scanning FM system

Audio recording system

Rotary heads, FM system

Video signal

TRV118/TRV318/TRV418:

NTSC color, EIA standards

TRV218E/TRV418E:

PAL color, CCIR standards

Usable cassette

8 mm video format cassette

Recording/playback time

TRV118/TRV318/TRV418:

(using 120 min.

video cassette)

SP mode: 2 hours

LP mode: 4 hours

TRV218E/TRV418E:

(using 90 min.

video cassette)

SP mode: 1.5 hours

LP mode: 3 hours

Fastforward/rewind time

TRV118/TRV318/TRV418:

(using 120 min.

video cassette)

TRV218E/TRV418E:

(using 90 min.

video cassette)

Approx. 5 min.

Viewfinder

Electric viewfinder (monochrom)

Image device

3 mm (1/6 type) CCD

(Charge Coupled Device)

TRV118/TRV318/TRV418:

Gross: Approx. 320 000 pixels

Effective: Approx. 200 000 pixels

TRV218E/TRV418E:

Gross: Approx. 380 000 pixels

Effective: Approx. 230 000 pixels

Lens

Combined power zoom lens

Filter diameter: 37 mm

(1 7/16 in.)

20x (Optical), 560x (Digital)

Focal length

f = 2.5 – 50 mm (1/8 – 2 in.)

When converted to a 35 mm still

camera

f = 42 – 840 mm

(1 11/16 – 33 1/8 in.)

Color temperature

Auto

Minimum illumination

1 lx (lux) (F 1.6)

0 lx (lux) (in the NightShot mode)*

* Objects unable to be seen due to the dark can be shot with infrared lighting.

Output connectors

S video jack

Output

TRV118/TRV318/TRV418:

4-pin mini DIN

Luminance signal: 1 Vp-p,

75 Ω (ohms), unbalanced

Chrominance signal: 0.286 Vp-p,

75 Ω (ohms), unbalanced

TRV218E/TRV418E:

4-pin mini DIN

Luminance signal: 1 Vp-p,

75 Ω (ohms), unbalanced

Chrominance signal: 0.3 Vp-p,

75 Ω (ohms), unbalanced

Audio/Video jack

Output

AV MINI JACK

VIDEO: 1 Vp-p, 75 Ω (ohms),

unbalanced, sync negative

AUDIO: 327 mV,

(at output impedance more than

47 kΩ (kilohms))

Output impedance with less than

2.2 kΩ (kilohms)/Monaural

minijack (ø 3.5 mm)

RFU DC out

Mini-minijack (ø 2.5 mm), DC 5 V

LCD screen

Picture

6.2 cm (2.5 type)

50.3 × 37.4 mm (2 × 1 1/2 in.)

Total dot number

61 600 (280 × 220)

General

Power requirements

7.2 V (rechargeable battery pack)

8.4 V (AC adaptor)

Average power consumption

(when using the battery pack)

During camera recording using

LCD

2.6 W

Viewfinder

1.9 W

Operating temperature

0°C to 40°C (32°F to 104°F)

Recommended charging

temperature

10°C to 30°C (50°F to 86°F)

Storage temperature

–20°C to + 60°C

(–4°F to + 140°F)

Dimensions (approx.)

89 × 101 × 199 mm

(3 5/8 × 4 × 7 7/8 in.) (w/h/d)

Mass (approx.)

main unit only

800 g (1 lb 12 oz)

including the rechargeable battery

pack NP-FM30, cassette, lens cap

and shoulder strap

940 g (2 lb 1 oz)

AC adaptor

Power requirements

100 – 240 V AC, 50/60 Hz

Current consumption

0.35 – 0.18 A

Power consumption

18 W

Output voltage

DC OUT: 8.4 V, 1.5 A in the

operating mode

Operating temperature

0°C to 40°C (32°F to 104°F)

Storage temperature

–20°C to + 60°C

(–4°F to + 140°F)

Dimensions (approx.)

56 × 31 × 100 mm

(2 1/4 × 1 1/4 × 4 in.) (w/h/d)

excluding projecting parts

Mass (approx.)

190 g (6.7 oz)

TRV118/TRV318/TRV418:

excluding power cord

TRV218E/TRV418E:

excluding mains lead

Rechargeable battery pack

Maximum output voltage

DC 8.4 V

Output voltage

DC 7.2 V

Capacity

5.0 Wh (700 mAh)

Operating temperature

0°C to 40°C (32°F to 104°F)

Dimensions (approx.)

38.2 × 20.5 × 55.6 mm

(1 9/16 × 13/16 × 2 1/4 in.)

(w/h/d)

Mass (approx.)

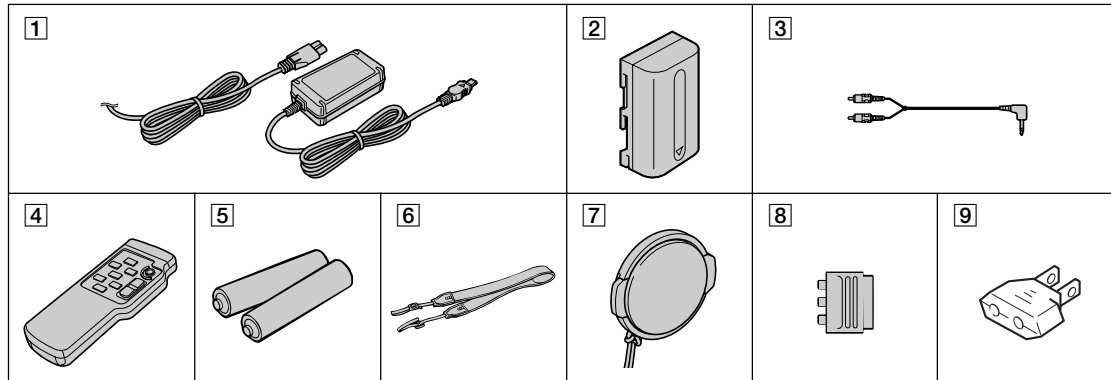
65 g (2.3 oz)

Type

Lithium ion

Design and specifications are subject to change without notice.

Supplied accessories



- | | | |
|--|--|--|
| 1 AC-L15A/L15B AC adaptor (1), power cord (1) | 4 Wireless Remote Commander (1)
TRV218E/TRV418/TRV418E | 7 Lens cap (1) |
| 2 NP-FM30 rechargeable battery pack (1) | 5 Size AA (R6) battery for Remote Commander (2)
TRV218E/TRV418/TRV418E | 8 21-pin adaptor (1)
AEP, UK, EE, NE |
| 3 A/V connecting cable (1) | 6 Shoulder strap (1) | 9 2-pin conversion adaptor (1)
E, HK |



Table for differences of function

Model	CCD-TRV118	CCD-TRV218E	CCD-TRV318	CCD-TRV418	CCD-TRV418E
Destination	US, CND, E	AEP, UK, EE, NE, E, HK, AUS	US, CND, E	E, KR	AEP, EE, NE, E, AUS
Remote commander	×	RMT-708	×	RMT-708	RMT-708
Color system	NTSC	PAL	NTSC	NTSC	PAL
Mechanism deck	M2100	M2101	M2100	M2100	M2101
Steady shot	×	×	○	○	○
LCD type	Please refer to page 1-2 to discriminate the type of LCD (TYPE C or TYPE S).				


- Abbreviation

AUS : Australian model	EE : East European model	KR : Korean model
CND : Canadian model	HK : Hong Kong model	NE : North European model

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK  OR DOTTED LINE WITH MARK  ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE  SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety checks before releasing the set to the customer.

1. Check the area of your repair for unsoldered or poorly-soldered connections. Check the entire board surface for solder splashes and bridges.
2. Check the interboard wiring to ensure that no wires are "pinched" or contact high-wattage resistors.
3. Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.
4. Look for parts which, through functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.
5. Check the B+ voltage to see it is at the values specified.
6. Flexible Circuit Board Repairing
 - Keep the temperature of the soldering iron around 270°C during repairing.
 - Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
 - Be careful not to apply force on the conductor when soldering or unsoldering.

Unleaded solder

Boards requiring use of unleaded solder are printed with the lead-free mark (LF) indicating the solder contains no lead.

(Caution: Some printed circuit boards may not come printed with the lead free mark due to their particular size.)



: LEAD FREE MARK

Unleaded solder has the following characteristics.

- Unleaded solder melts at a temperature about 40°C higher than ordinary solder.
Ordinary soldering irons can be used but the iron tip has to be applied to the solder joint for a slightly longer time.
Soldering irons using a temperature regulator should be set to about 350°C.
Caution: The printed pattern (copper foil) may peel away if the heated tip is applied for too long, so be careful!
- Strong viscosity
Unleaded solder is more viscous (sticky, less prone to flow) than ordinary solder so use caution not to let solder bridges occur such as on IC pins, etc.
- Usable with ordinary solder
It is best to use only unleaded solder but unleaded solder may also be added to ordinary solder.

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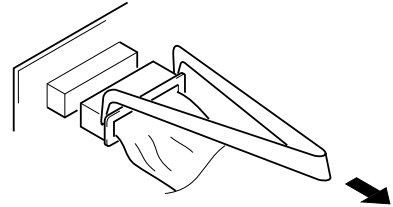
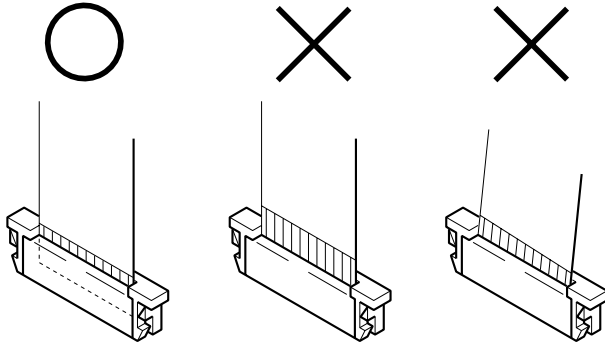


SECTION 1 SERVICE NOTE

1-1. NOTE FOR REPAIR

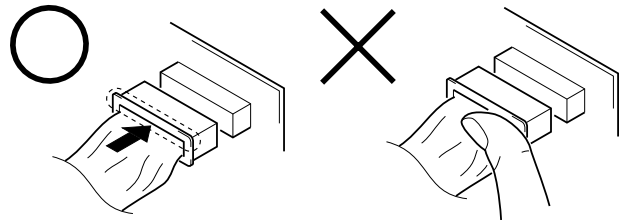
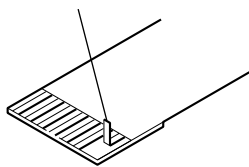
Make sure that the flat cable and flexible board are not cracked or bent at the terminal.
Do not insert the cable insufficiently nor crookedly.

When remove a connector, don't pull at wire of connector.
It is possible that a wire is snapped.



When installing a connector, don't press down at wire of connector.
It is possible that a wire is snapped.

Cut and remove the part of gilt which comes off at the point.
(Be careful or some pieces of gilt may be left inside)



1-2. POWER SUPPLY DURING REPAIRS

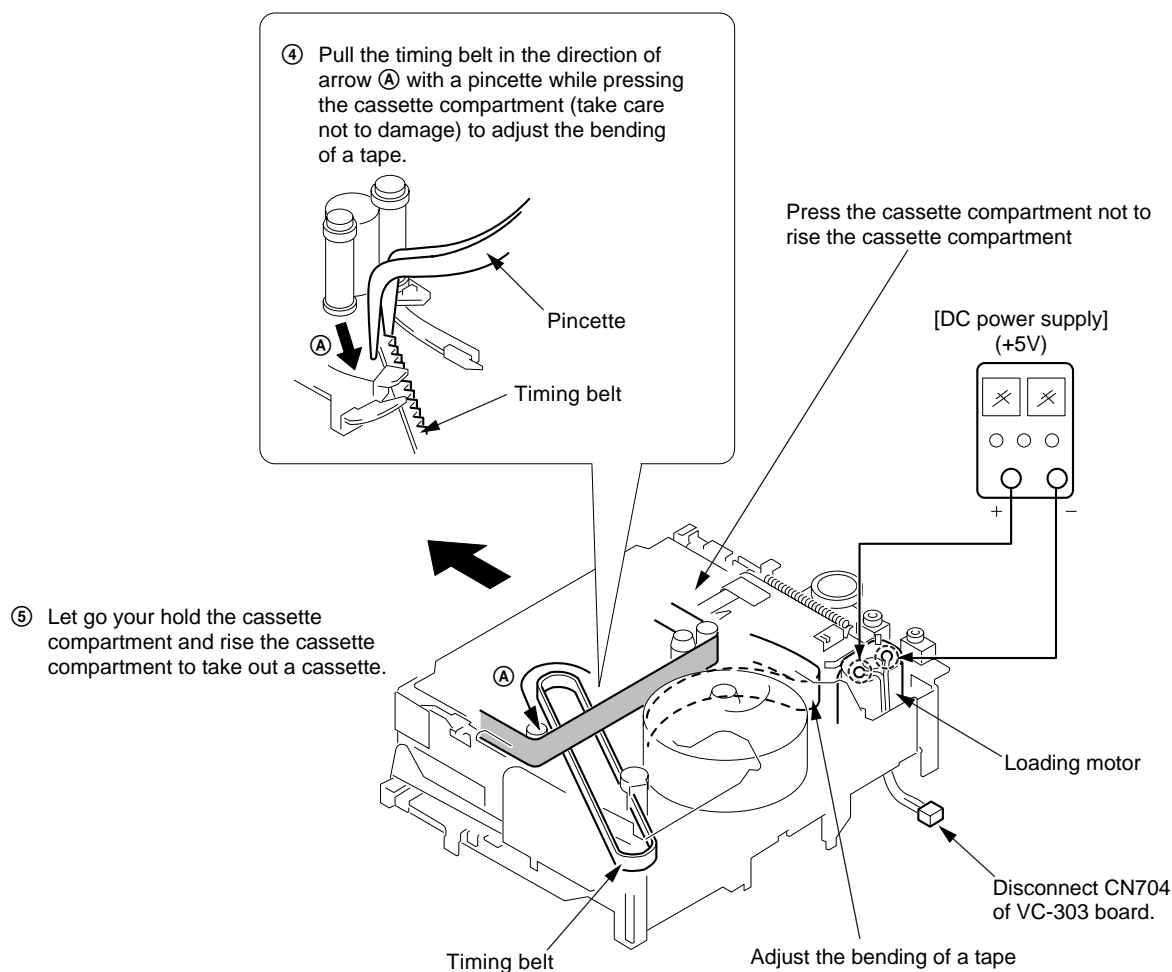
In this unit, about 10 seconds after power is supplied to the battery terminal using the regulated power supply (8.4V), the power is shut off so that the unit cannot operate.
The following method is available to prevent this.

Method 1.

Use the AC power adaptor (AC-L10, AC-VQ800 etc.).

1-3. TO TAKE OUT A CASSETTE WHEN NOT EJECT (FORCE EJECT)

- ① Refer to “SECTION 2. DISASSEMBLY” to remove the mechanism deck block.
- ② Disconnect CN704 (2P) of VC-303 board.
- ③ Add +5V from the DC POWER SUPPLY and unload with a pressing the cassette compartment.



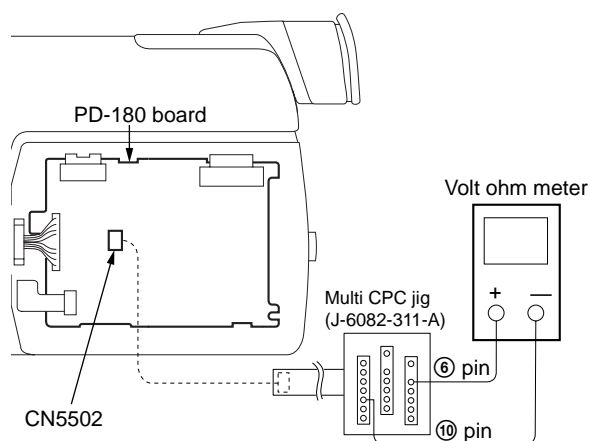
1-4. LCD TYPE CHECK

By measuring the resistor value between Pin ⑥ of CN5502 and Pin ⑩ of CN5502 on PD-180 board, the type of LCD can be discriminated.

Note: About PD-180 board and LCD module, discriminate LCD type on the machine, and replace the same type.

PD-180 board CN5502

Resistor value	LCD type	PD board
1 kΩ	TYPE S	PD-180 (TYPE S)
1.5 kΩ	TYPE C	PD-180 (TYPE C)



1-5. SELF-DIAGNOSIS FUNCTION

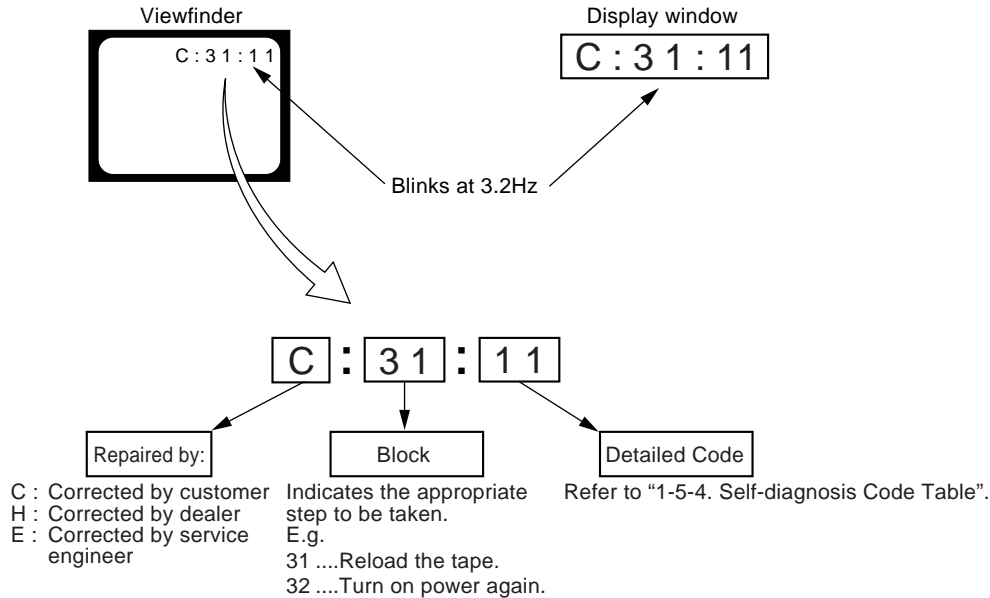
1-5-1. Self-diagnosis Function

When problems occur while the unit is operating, the self-diagnosis function starts working, and displays on the viewfinder or Display window what to do. This function consists of two display; self-diagnosis display and service mode display.

Details of the self-diagnosis functions are provided in the Instruction manual.

1-5-2. Self-diagnosis Display

When problems occur while the unit is operating, the counter of the viewfinder or Display window shows a 4-digit display consisting of an alphabet and numbers, which blinks at 3.2 Hz. This 5-character display indicates the “repaired by:”, “block” in which the problem occurred, and “detailed code” of the problem.

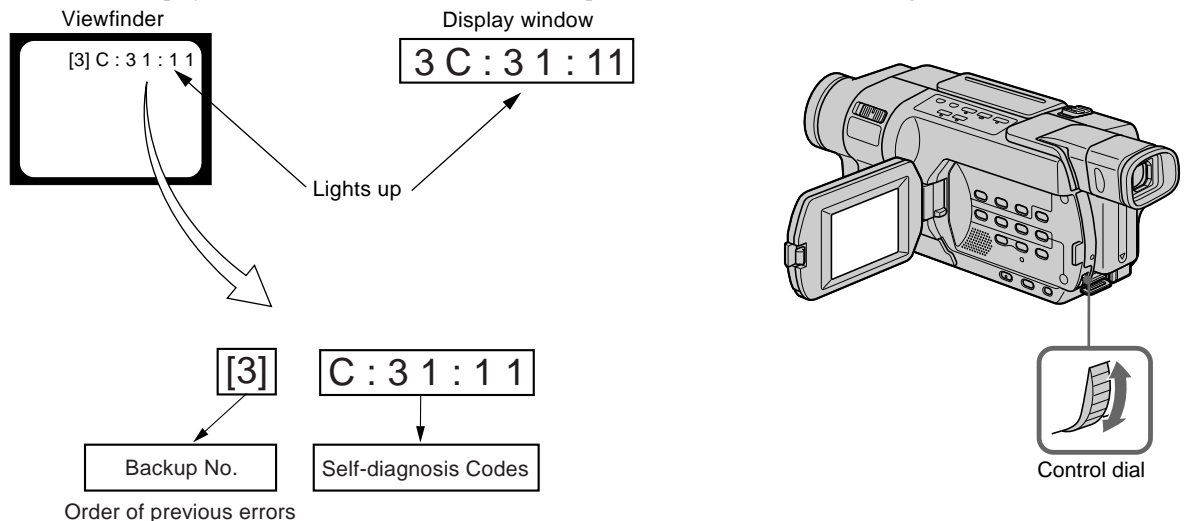


1-5-3. Service Mode Display

The service mode display shows up to six self-diagnosis codes shown in the past.

1. Display Method

While pressing the “STOP” key, set the switch from OFF to “PLAYER”, and continue pressing the “STOP” key for 5 seconds continuously. The service mode will be displayed, and the counter will show the backup No. and the 5-character self-diagnosis codes.



2. Switching of Backup No.

By rotating the control dial, past self-diagnosis codes will be shown in order. The backup No. in the [] indicates the order in which the problem occurred. (If the number of problems which occurred is less than 6, only the number of problems which occurred will be shown.)

[1] : Occurred first time [3] : Occurred third time [5] : Occurred fifth time
[2] : Occurred second time [4] : Occurred fourth time [6] : Occurred the last time

3. End of Display

Turning OFF the power supply will end the service mode display.

Note: The “self-diagnosis display” data will be backed up by the lithium battery (CONTROL SWITCH BLOCK (CF-3000): BT001). When removing the cabinet (R) (removing the VC-303 board CN713), the “self-diagnosis display” data will be lost by initialization.

1-5-4. Self-diagnosis Code Table

Self-diagnosis Code				Symptom/State	Correction
Repaired by:	Block Function		Detailed Code		
C	0	4	0 0	Non-standard battery is used.	Use the info LITHIUM battery.
C	2	1	0 0	Condensation.	Remove the cassette, and insert it again after one hour.
C	2	2	0 0	Video head is dirty.	Clean with the optional cleaning cassette.
C	3	1	1 0	LOAD direction. Loading does not complete within specified time	Load the tape again, and perform operations from the beginning
C	3	1	1 1	UNLOAD direction. Loading does not complete within specified time	Load the tape again, and perform operations from the beginning.
C	3	1	2 0	T reel side tape slacking when unloading.	Load the tape again, and perform operations from the beginning.
C	3	1	2 1	Winding S reel fault when counting the rest of tape.	Load the tape again, and perform operations from the beginning.
C	3	1	2 2	T reel fault.	Load the tape again, and perform operations from the beginning.
C	3	1	2 3	S reel fault.	Load the tape again, and perform operations from the beginning.
C	3	1	2 4	T reel fault.	Load the tape again, and perform operations from the beginning.
C	3	1	3 0	FG fault when starting capstan.	Load the tape again, and perform operations from the beginning.
C	3	1	4 0	FG fault when starting drum.	Load the tape again, and perform operations from the beginning.
C	3	1	4 2	FG fault during normal drum operations.	Load the tape again, and perform operations from the beginning.
C	3	1	1 0	LOAD direction loading motor time-out.	Remove the battery or power cable, connect, and perform operations from the beginning.
C	3	1	1 1	UNLOAD direction loading motor time-out.	Remove the battery or power cable, connect, and perform operations from the beginning.
C	3	2	2 0	T reel side tape slacking when unloading.	Remove the battery or power cable, connect, and perform operations from the beginning.
C	3	2	2 1	Winding S reel fault when counting the rest of tape.	Remove the battery or power cable, connect, and perform operations from the beginning.
C	3	2	2 2	T reel fault.	Remove the battery or power cable, connect, and perform operations from the beginning.
C	3	2	2 3	S reel fault.	Remove the battery or power cable, connect, and perform operations from the beginning.
C	3	2	2 4	T reel fault.	Remove the battery or power cable, connect, and perform operations from the beginning.
C	3	2	3 0	FG fault when starting capstan.	Remove the battery or power cable, connect, and perform operations from the beginning.
C	3	2	4 0	FG fault when starting drum	Remove the battery or power cable, connect, and perform operations from the beginning.
C	3	2	4 2	FG fault during normal drum operations	Remove the battery or power cable, connect, and perform operations from the beginning.
E	6	1	0 0	Difficult to adjust focus (Cannot initialize focus.)	Inspect the lens block focus reset sensor (Pin ⑫ of VC-303 board CN301) when focusing is performed when the control dial is rotated in the focus manual mode, and the focus motor drive circuit (IC301 of VC-303 board) when the focusing is not performed.
E	6	1	1 0	Zoom operations fault (Cannot initialize zoom lens.)	Inspect the lens block zoom reset sensor (Pin ⑬ of VC-303 board CN301) when zooming is performed when the zoom switch is operated and the zoom motor drive circuit (IC301 of VC-303 board) when zooming is not performed.
E	6	2	0 0	Steadyshot function does not work well. (With pitch angular velocity sensor output stopped.)	Inspect pitch angular velocity sensor (SE751 of SI-035 board) peripheral circuits. *1
E	6	2	0 1	Steadyshot function does not work well. (With yaw angular velocity sensor output stopped.)	Inspect yaw angular velocity sensor (SE752 of SI-035 board) peripheral circuits. *1

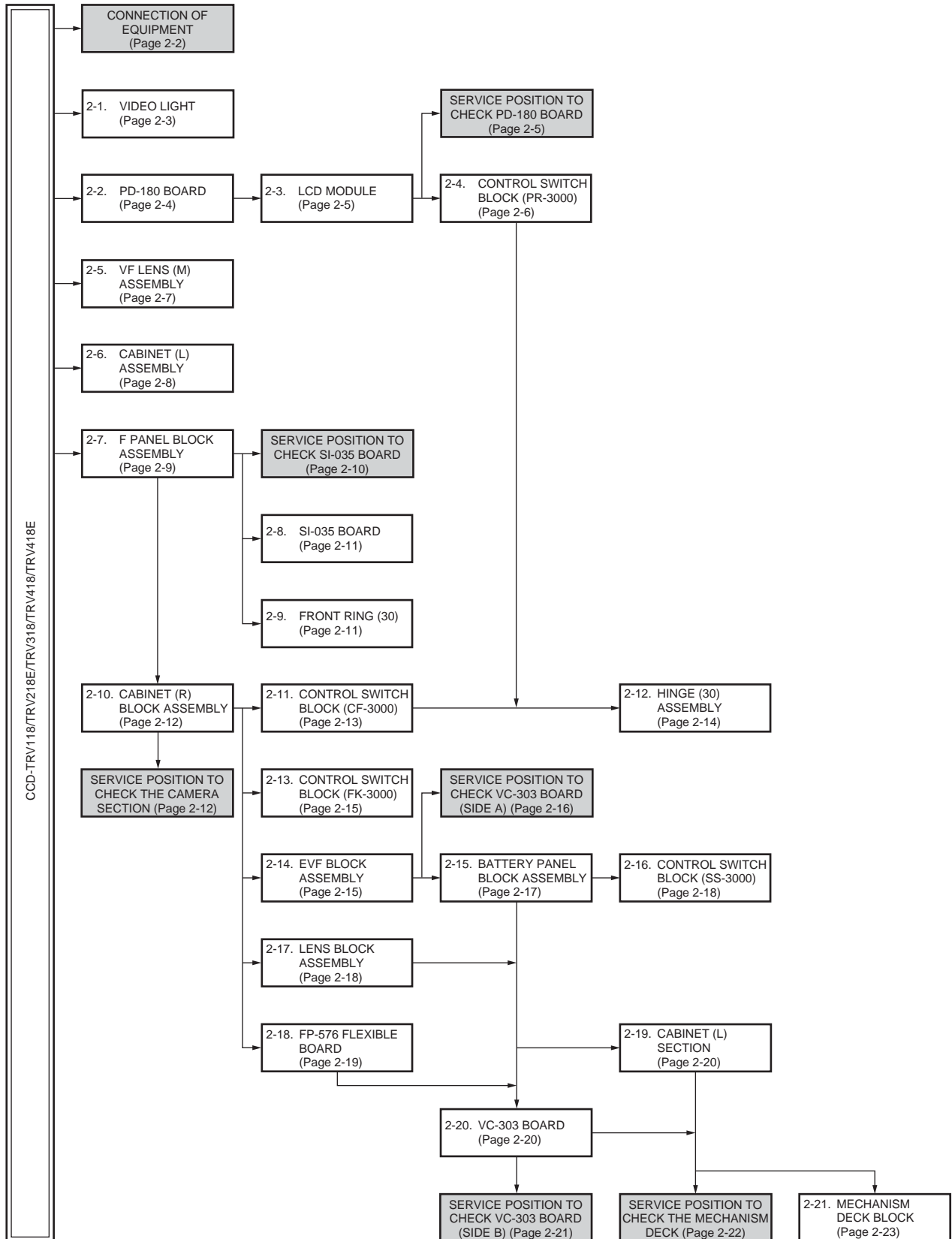
*1: STEADYSHOT model (CCD-TRV318/TRV418/TRV418E)



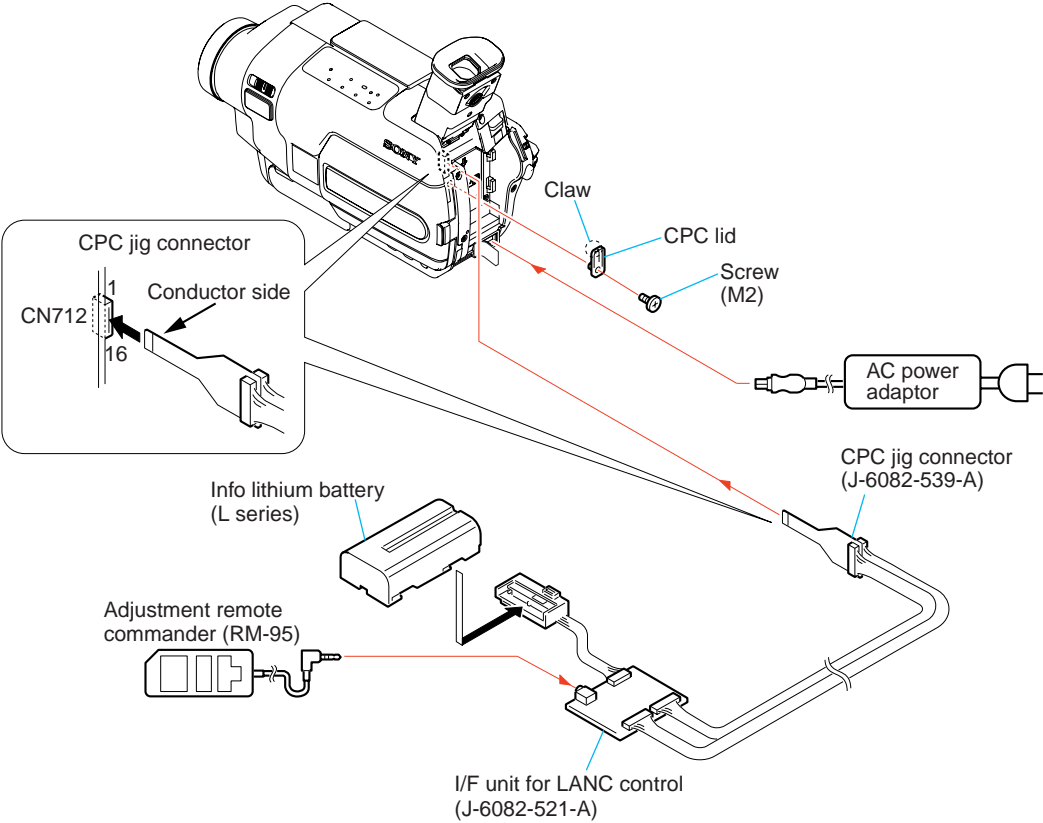
SECTION 2 DISASSEMBLY



The following flow chart shows the disassembly procedure.

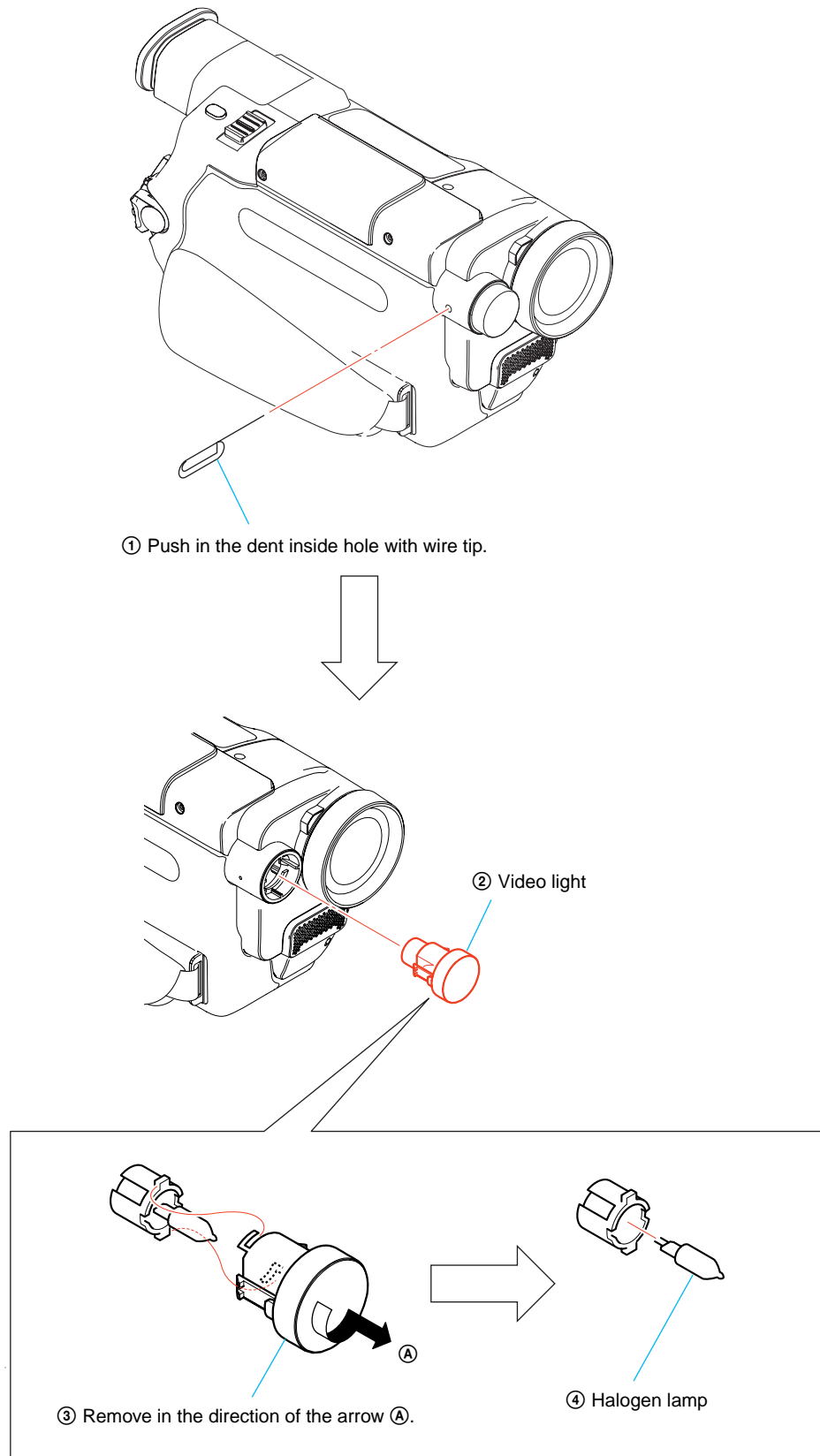


[CONNECTION OF EQUIPMENT]

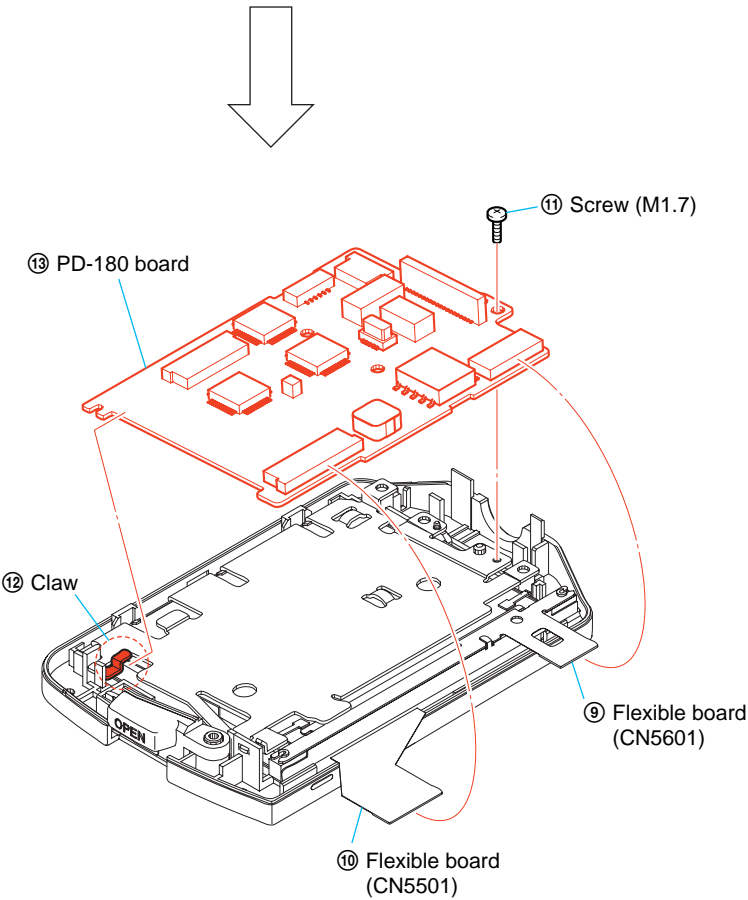
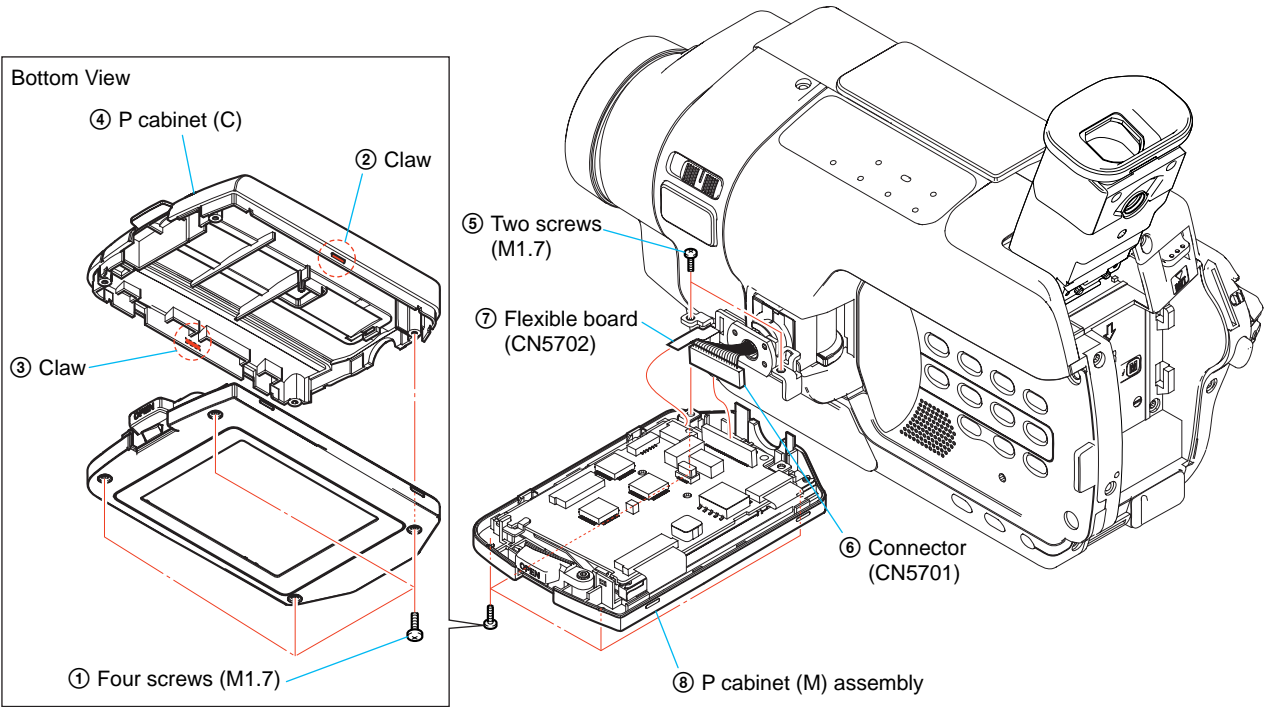


Note: Follow the disassembly procedure in the numerical order given.

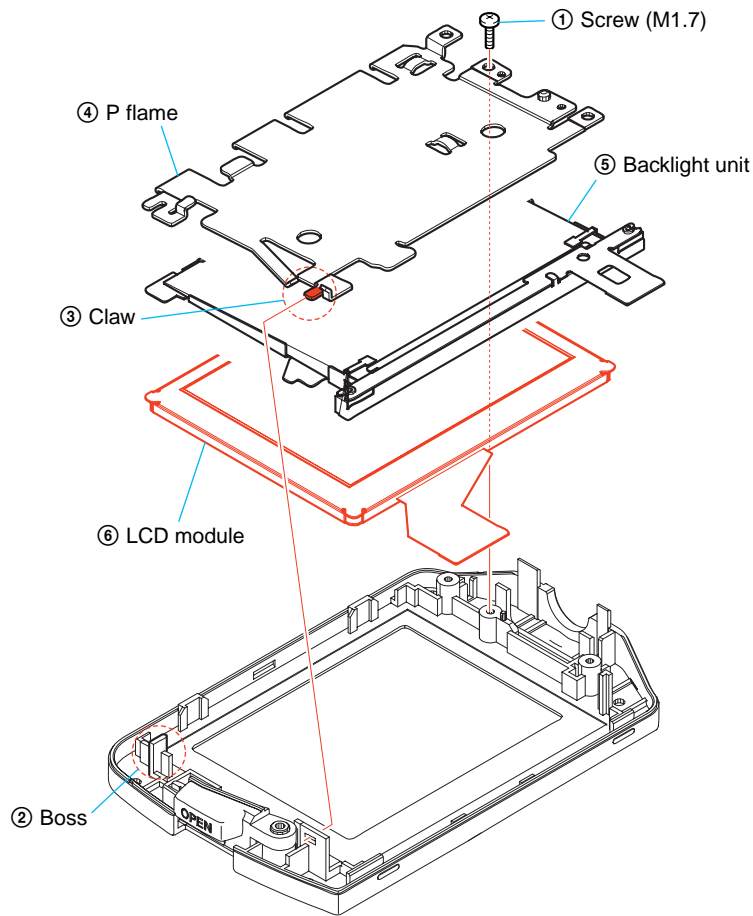
2-1. VIDEO LIGHT



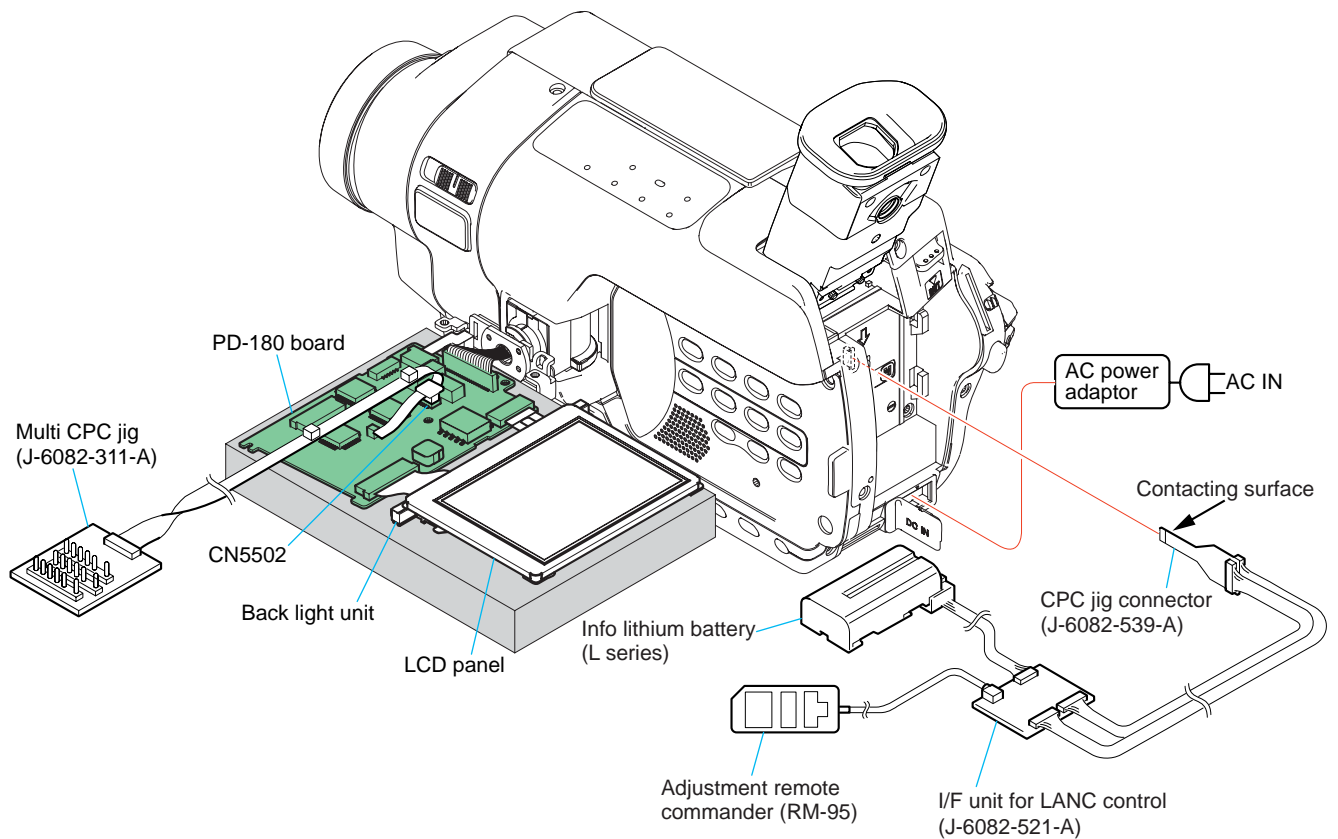
2-2. PD-180 BOARD



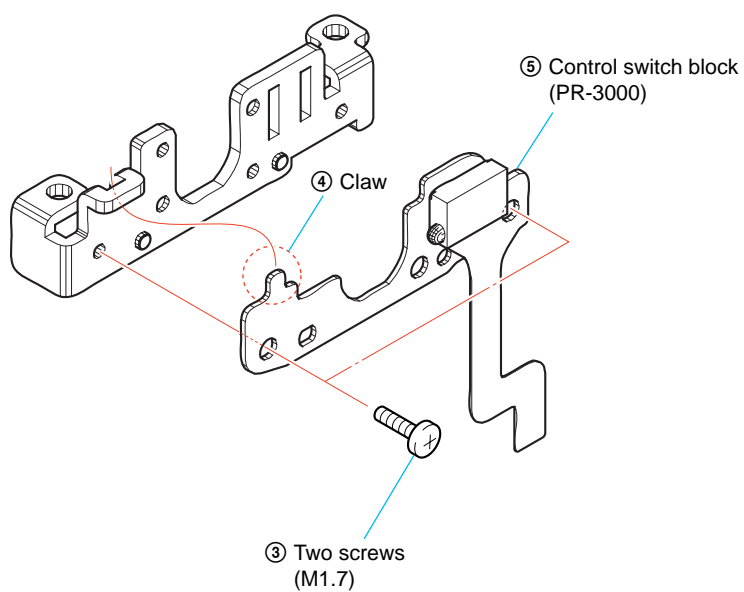
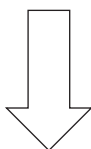
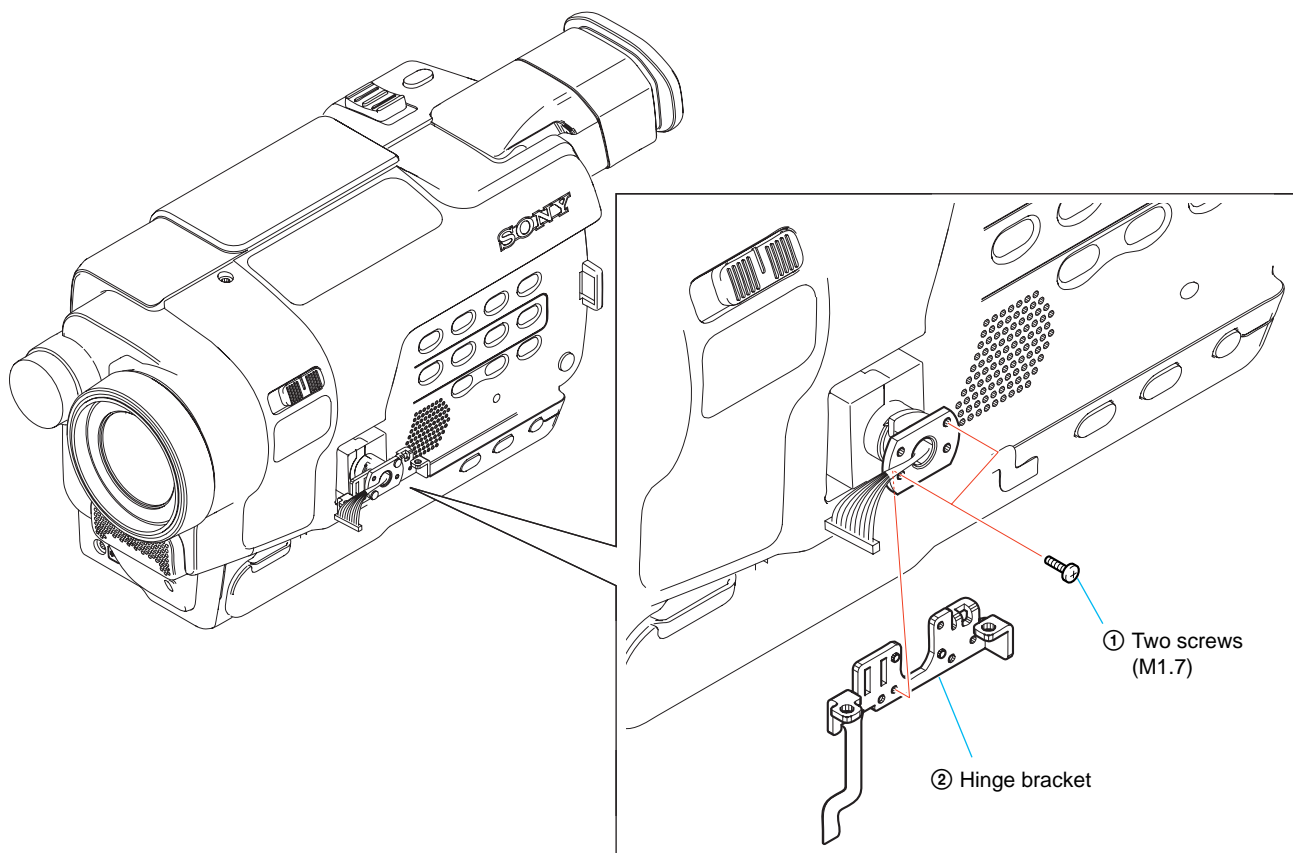
2-3. LCD MODULE



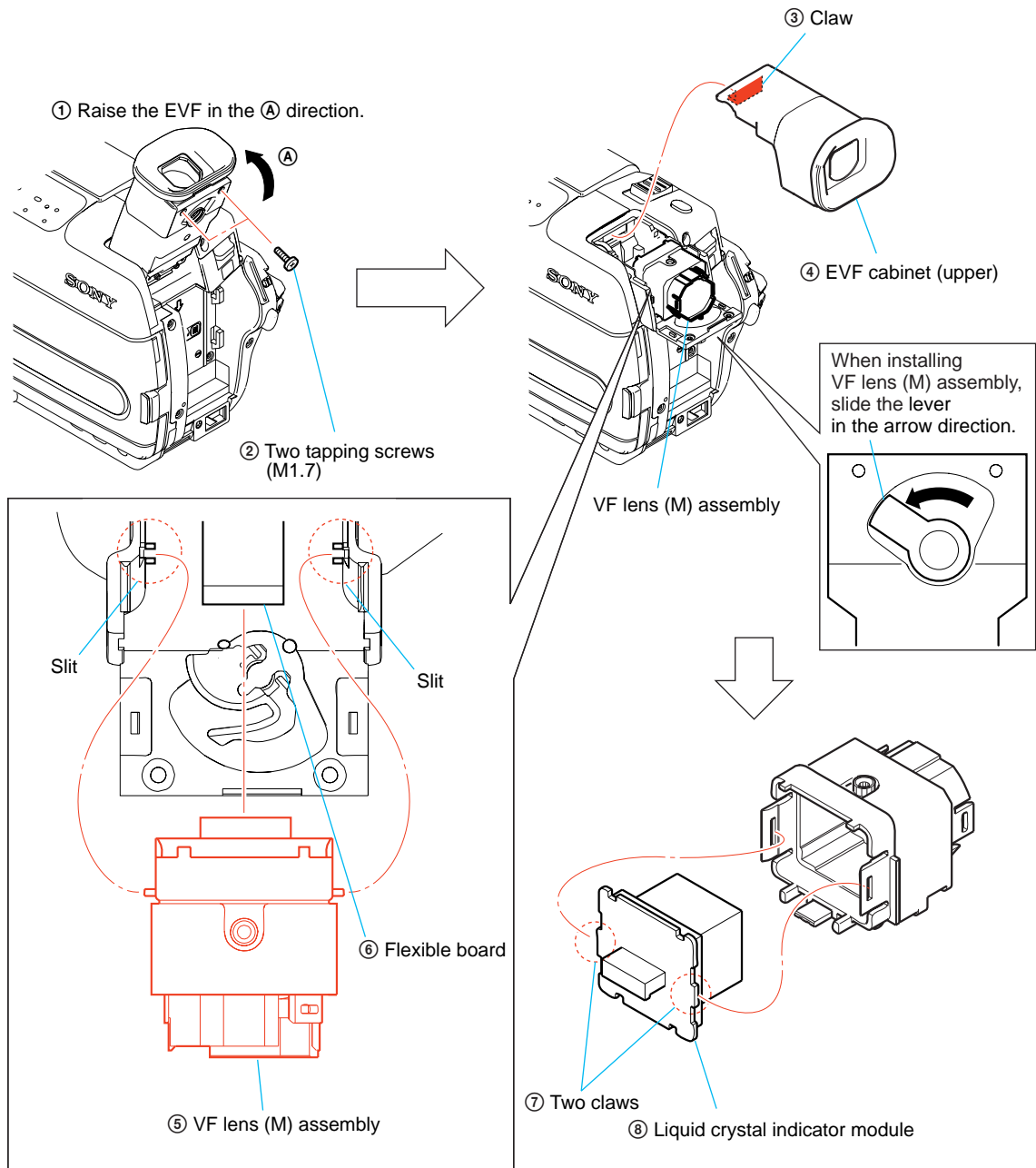
[SERVICE POSITION TO CHECK PD-180 BOARD]



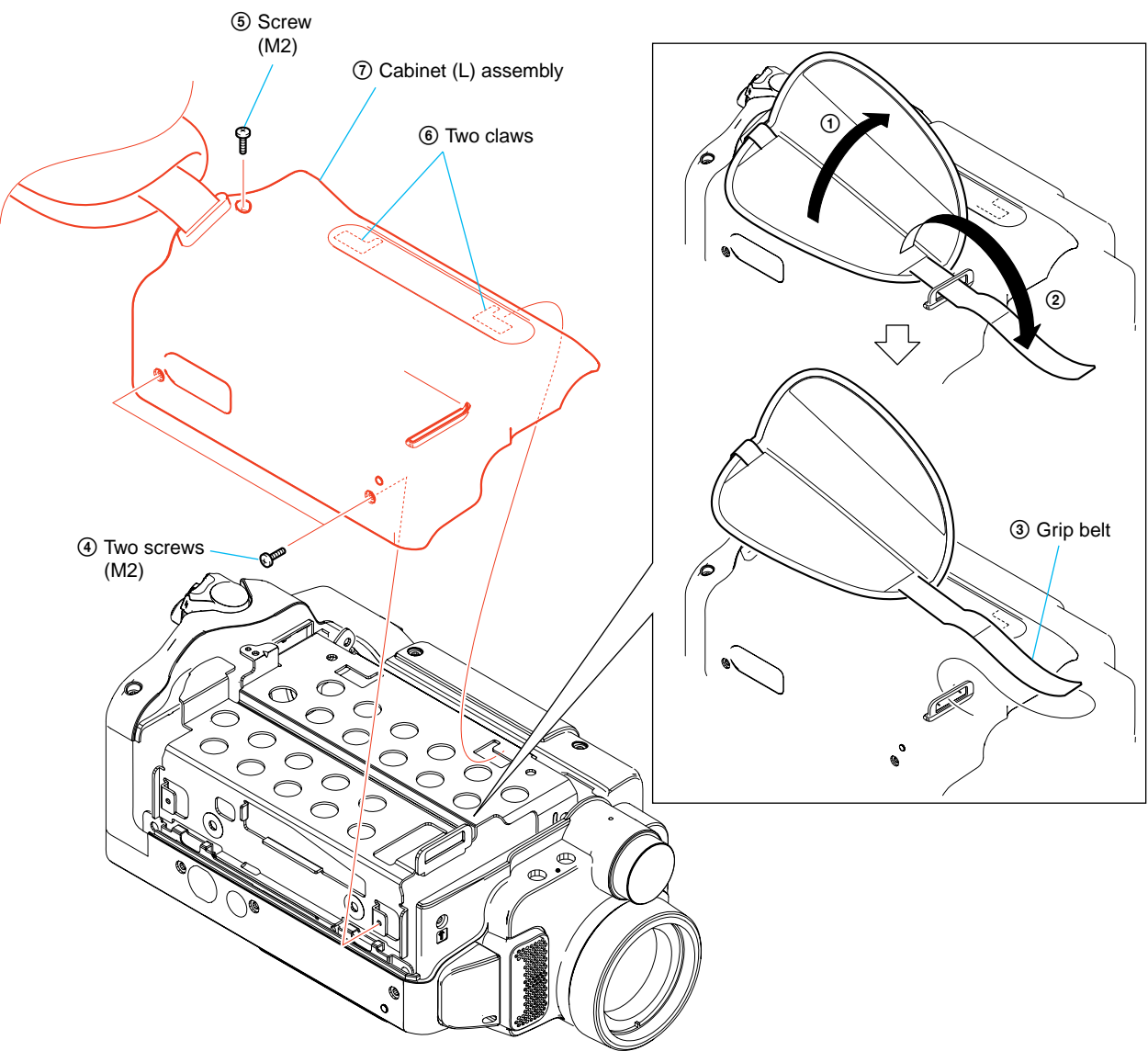
2-4. CONTROL SWITCH BLOCK (PR-3000)



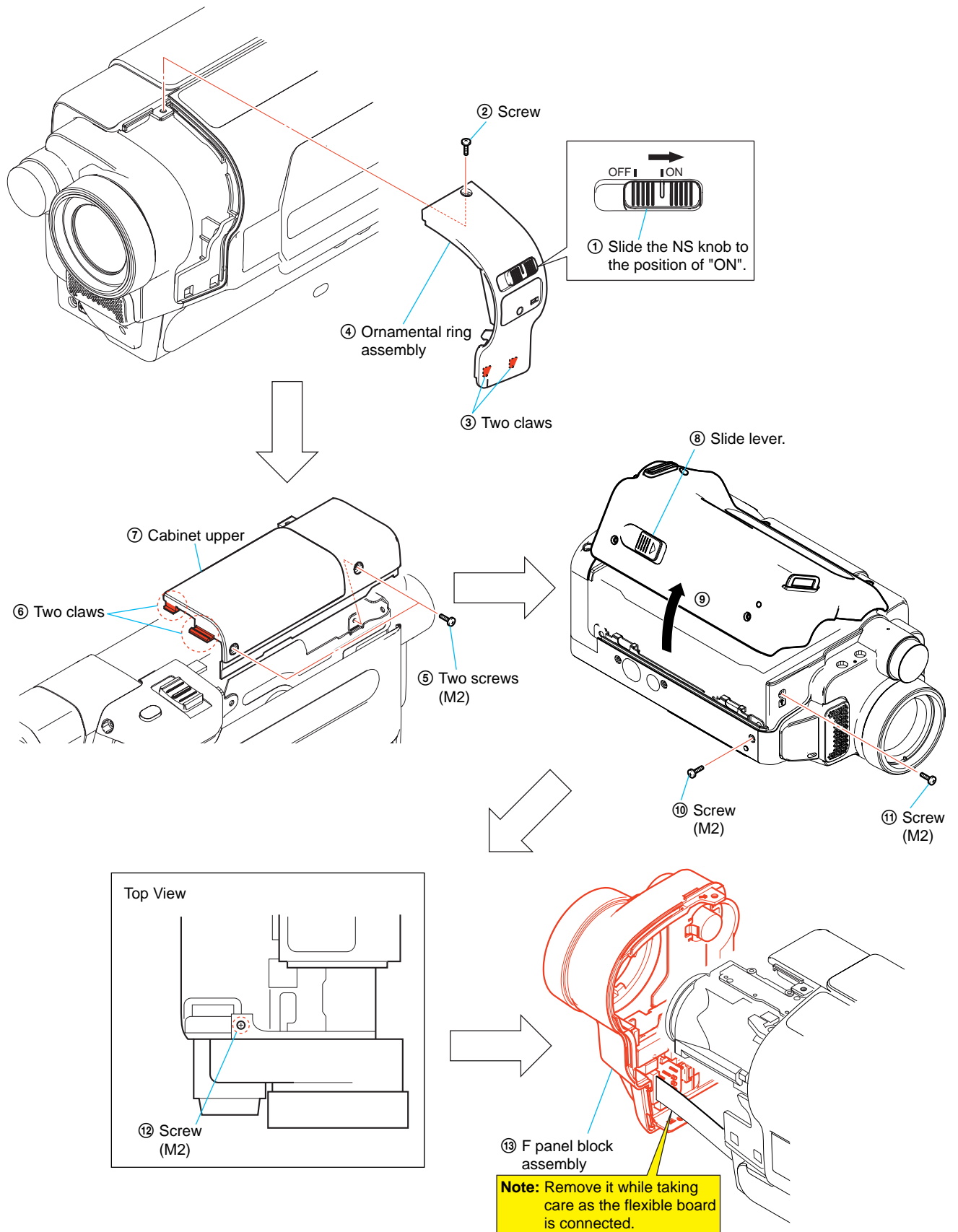
2-5. VF LENS (M) ASSEMBLY



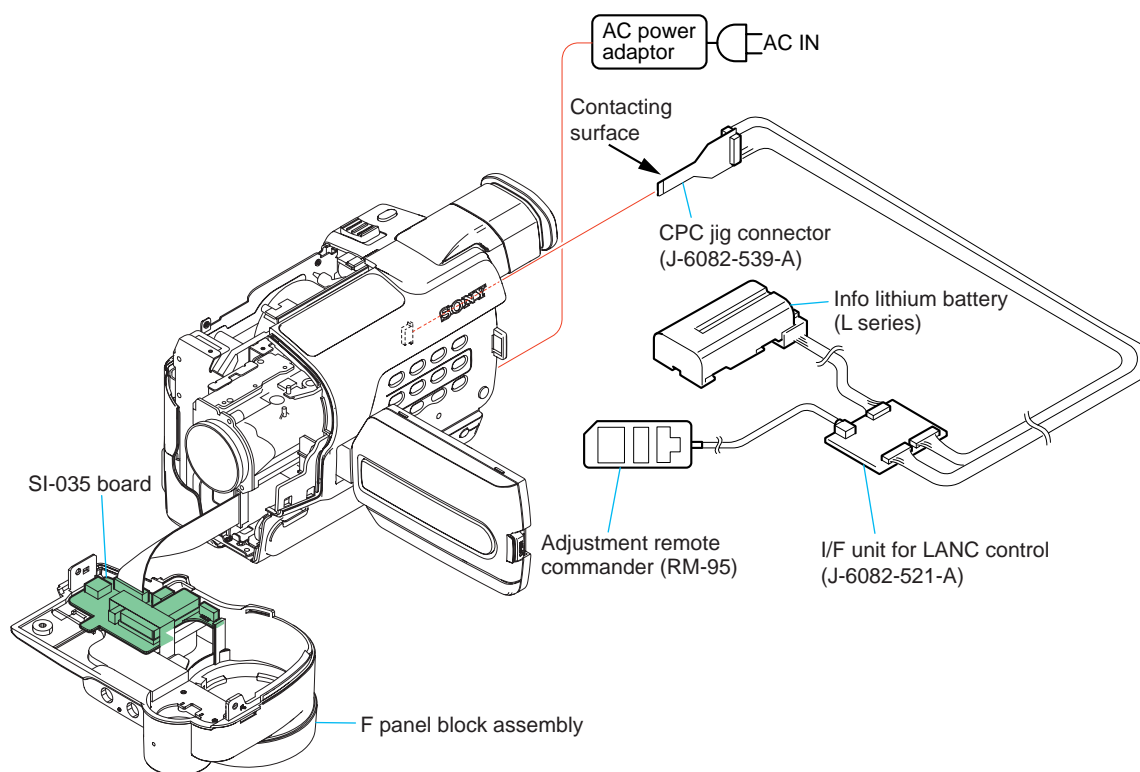
2-6. CABINET (L) ASSEMBLY



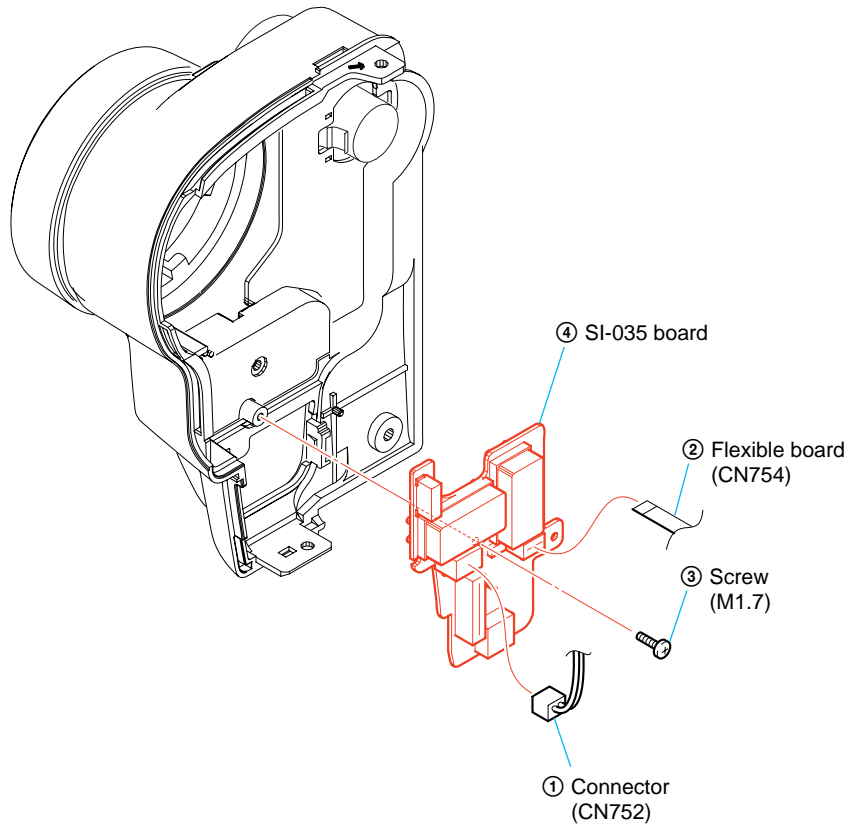
2-7. F PANEL BLOCK ASSEMBLY



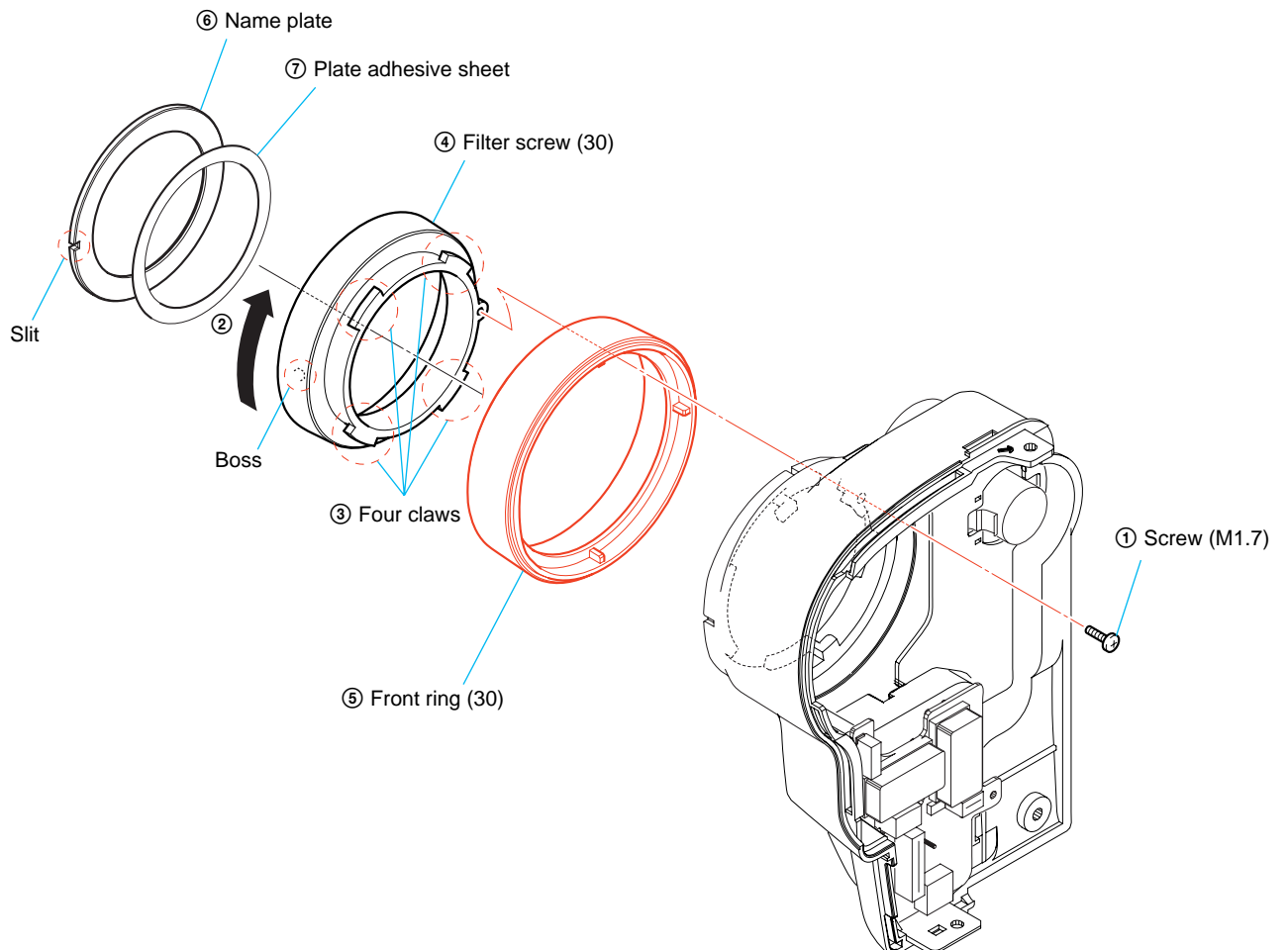
[SERVICE POSITION TO CHECK SI-035 BOARD]



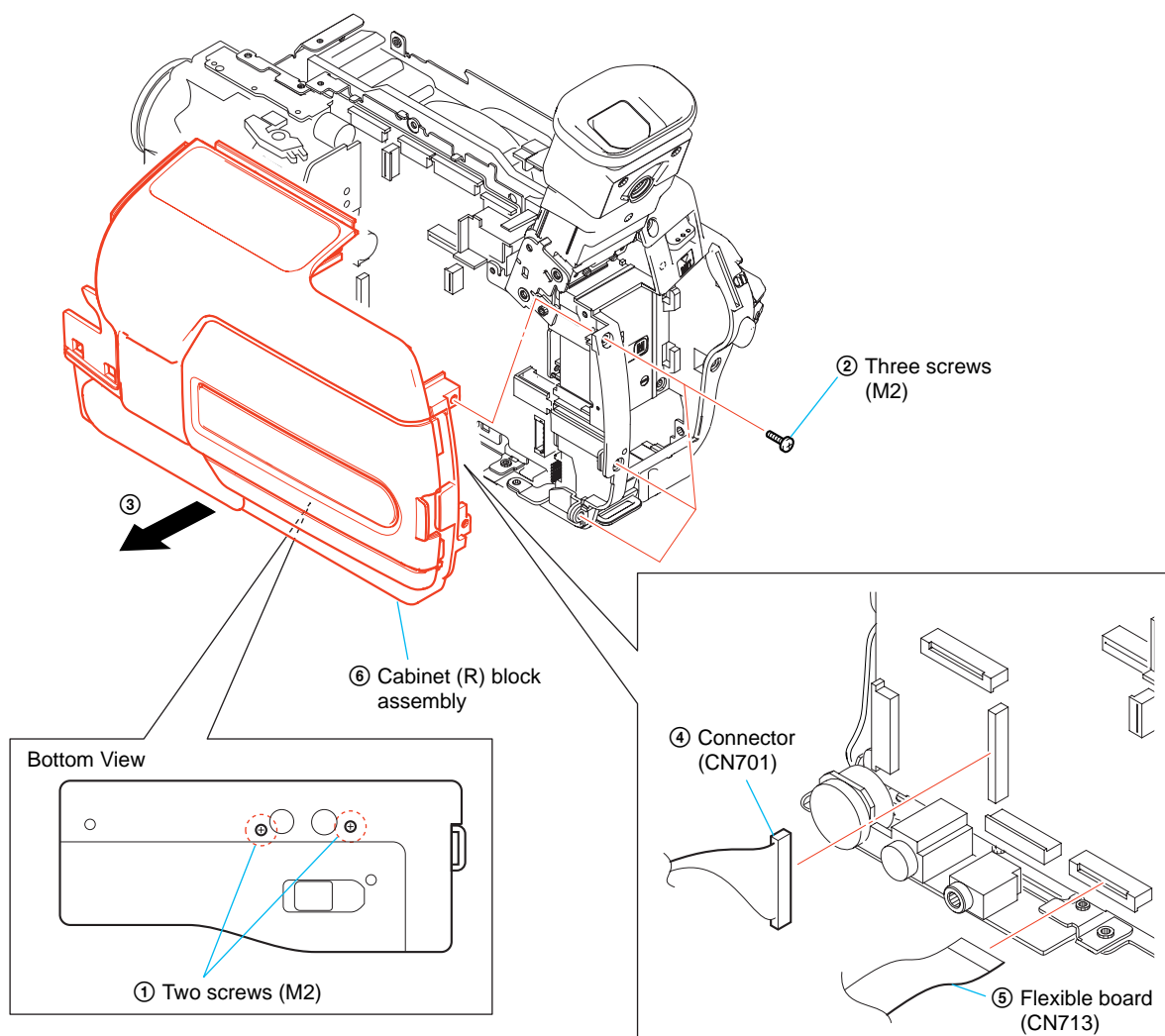
2-8. SI-035 BOARD



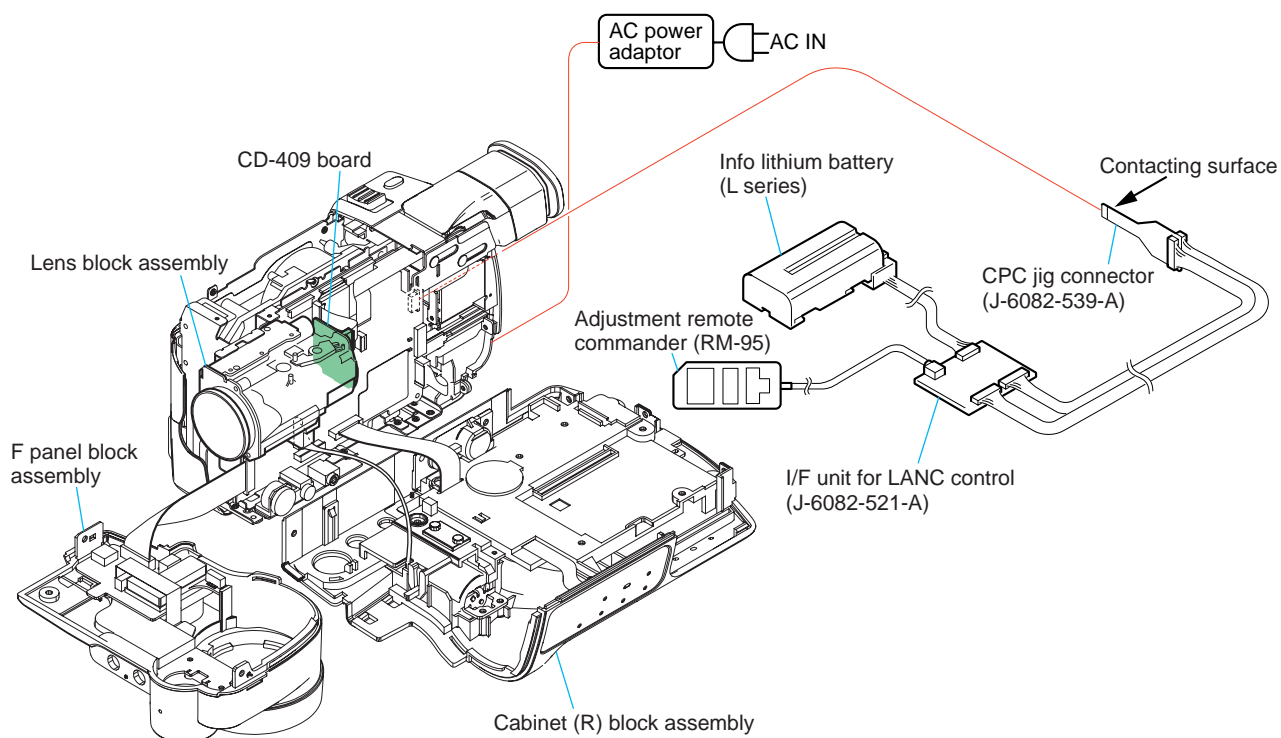
2-9. FRONT RING (30)



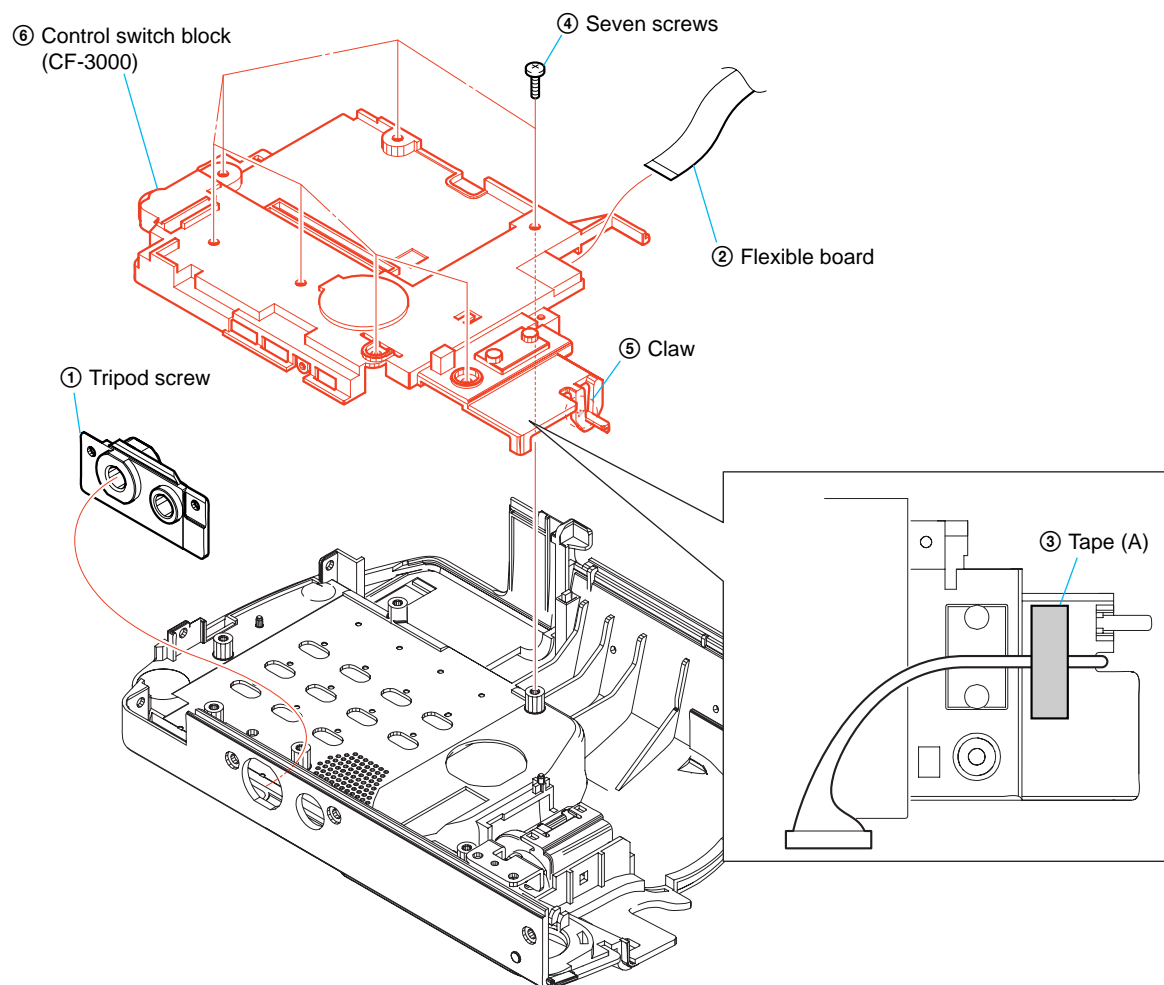
2-10.CABINET (R) BLOCK ASSEMBLY



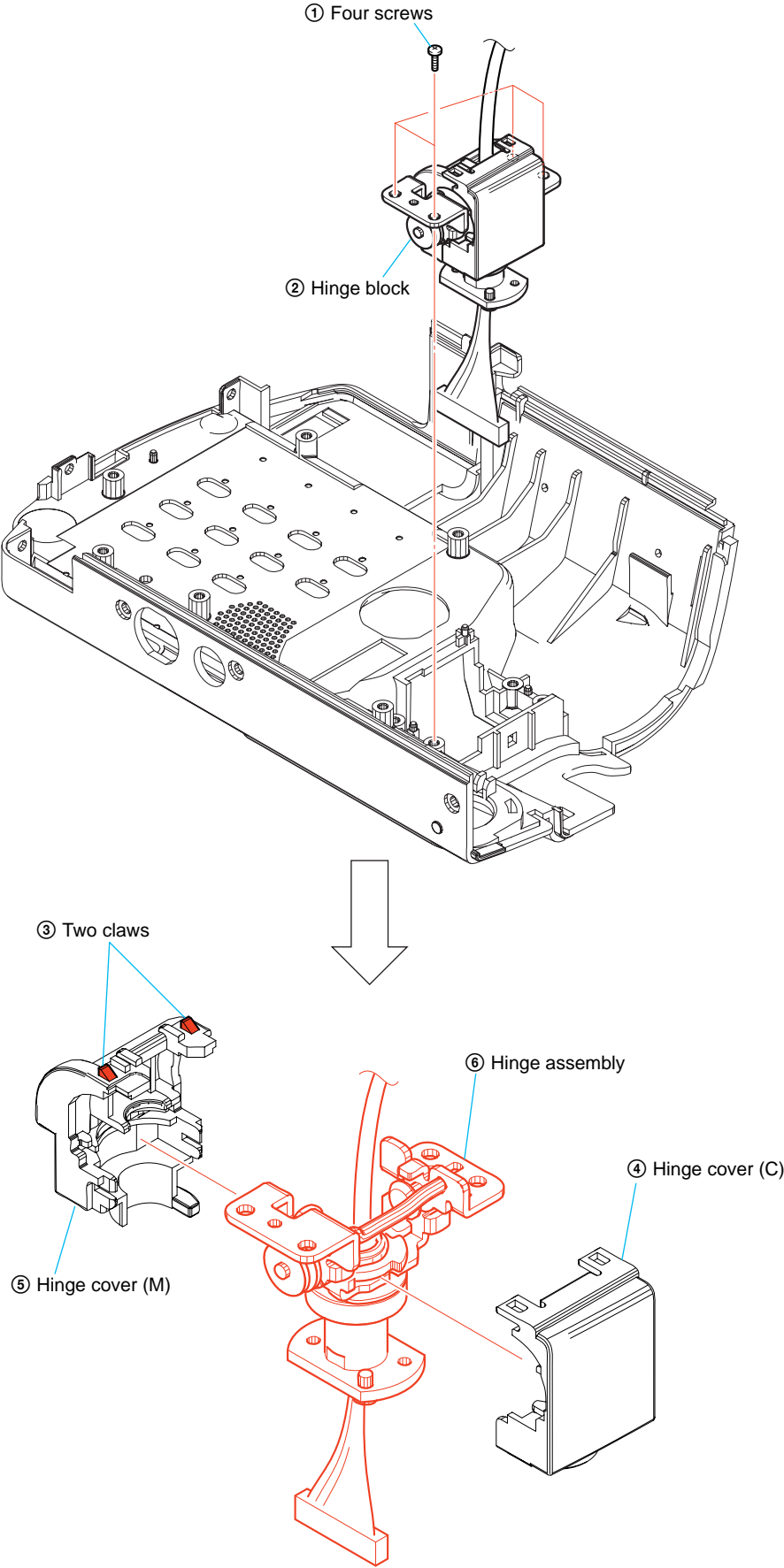
[SERVICE POSITION TO CHECK THE CAMERA SECTION]



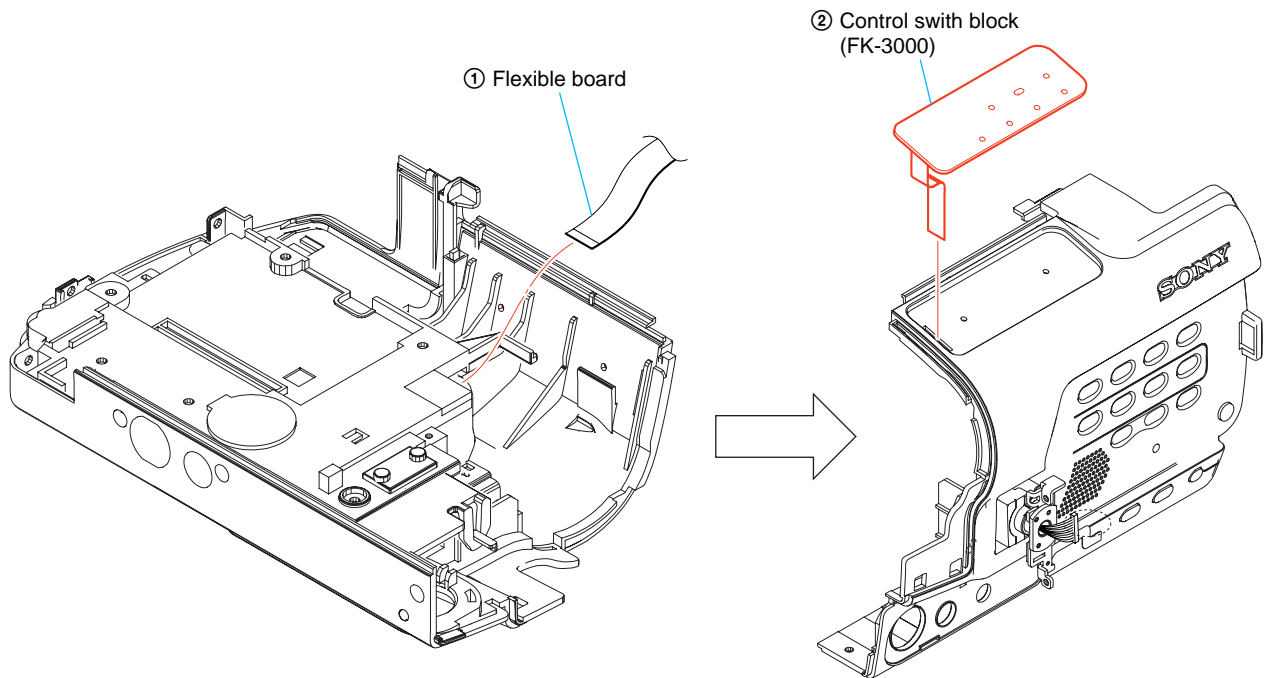
2-11.CONTROL SWITCH BLOCK (CF-3000)



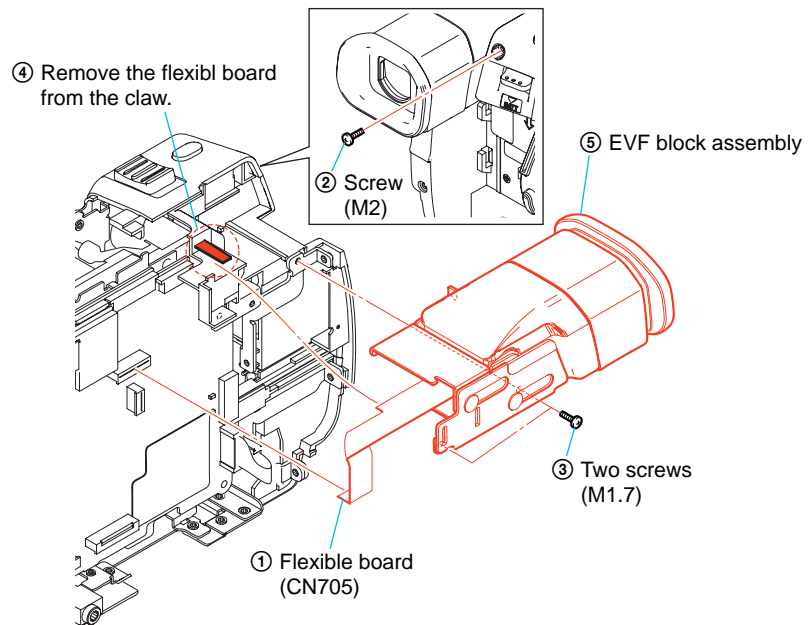
2-12.HINGE (30) ASSEMBLY



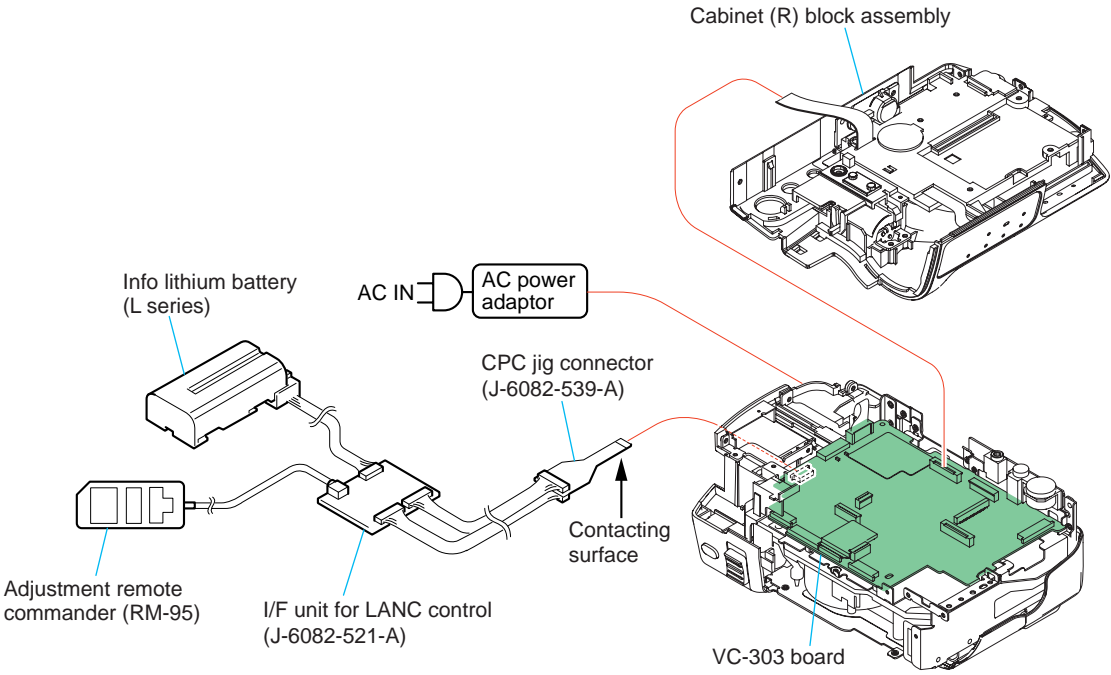
2-13.CONTROL SWITCH BLOCK (FK-3000)



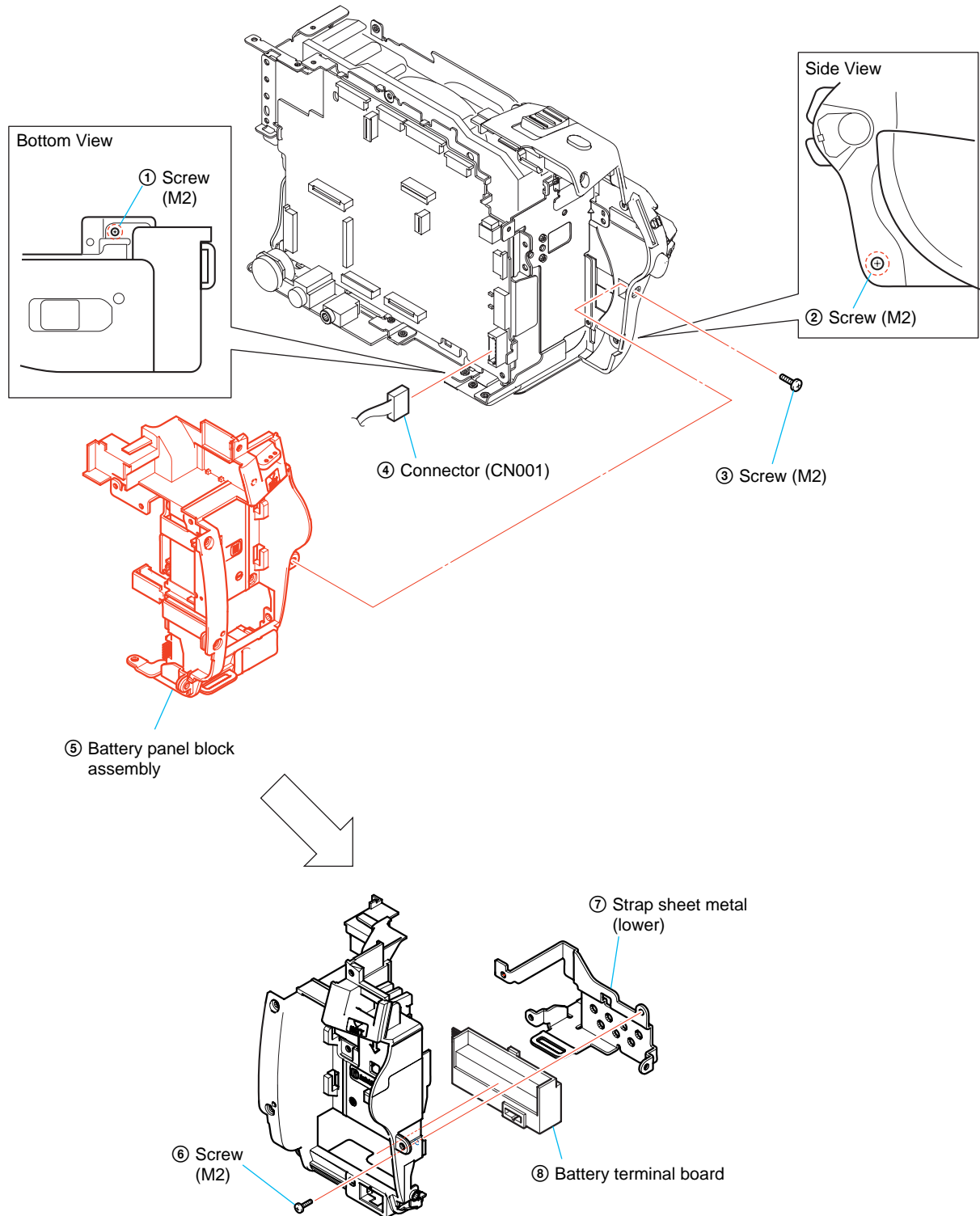
2-14.EVF BLOCK ASSEMBLY



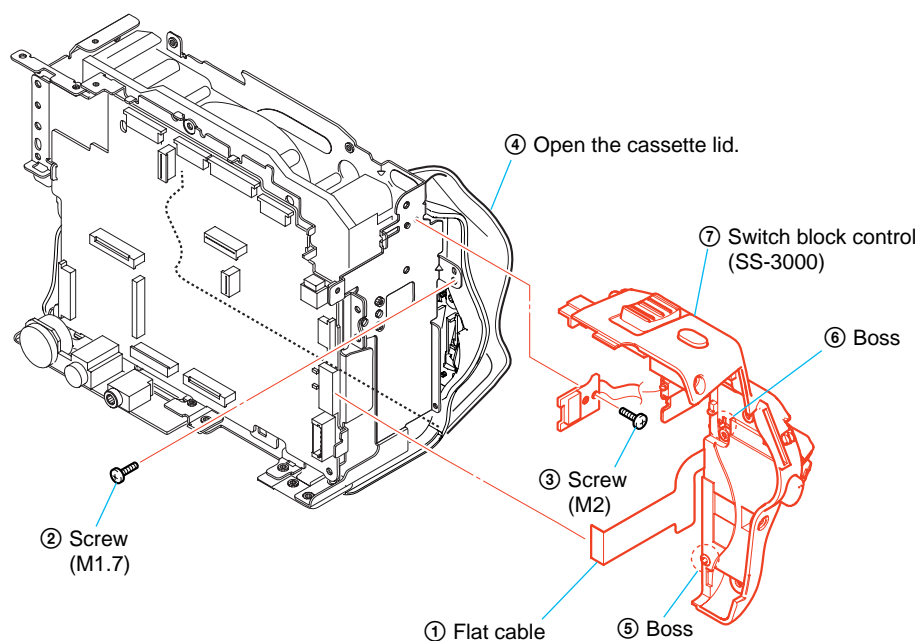
[SERVICE POSITION TO CHECK VC-303 BOARD (SIDE A)]



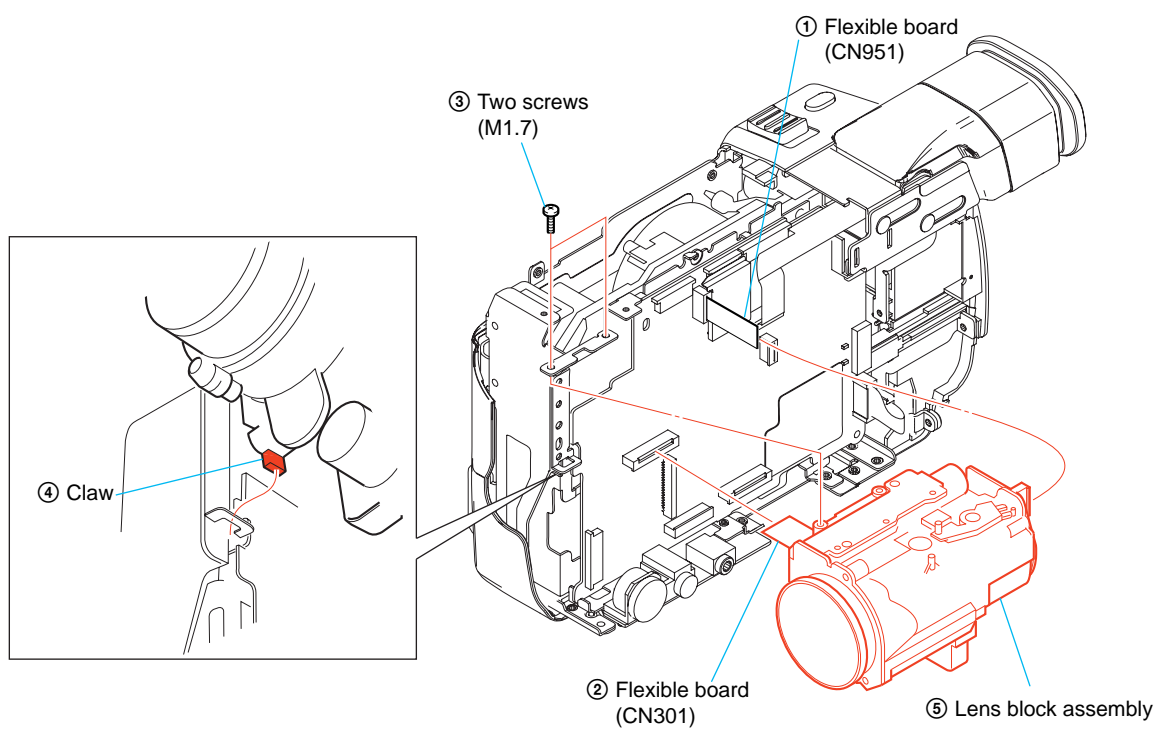
2-15.BATTERY PANEL BLOCK ASSEMBLY



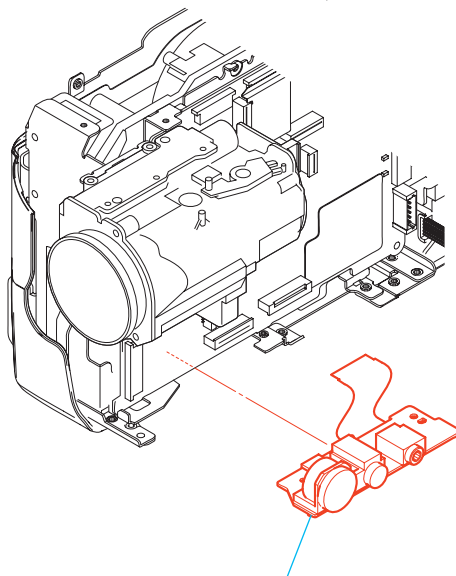
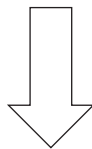
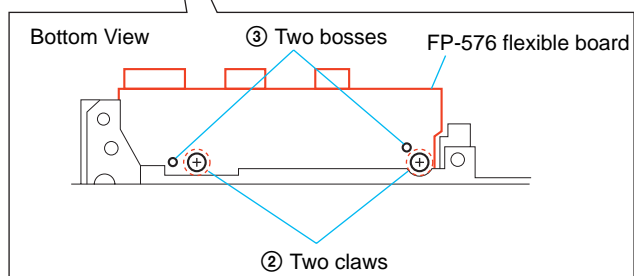
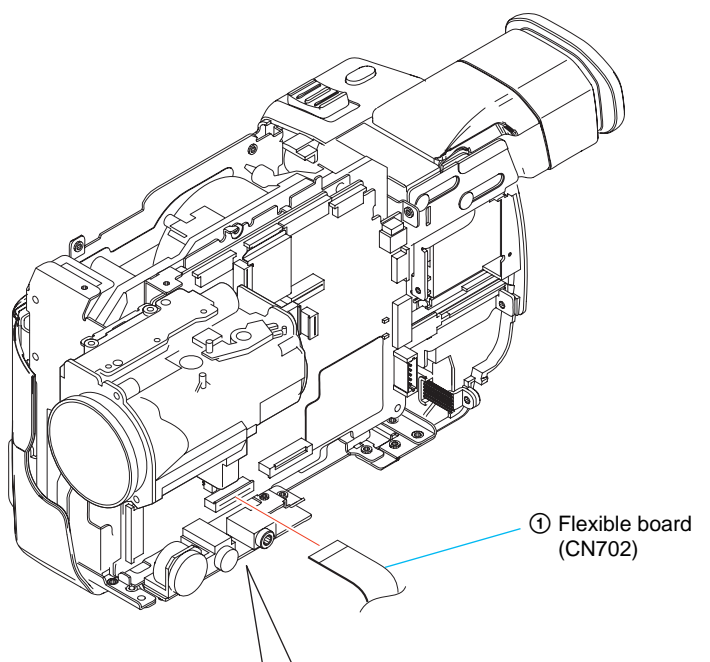
2-16.CONTROL SWITCH BLOCK (SS-3000)



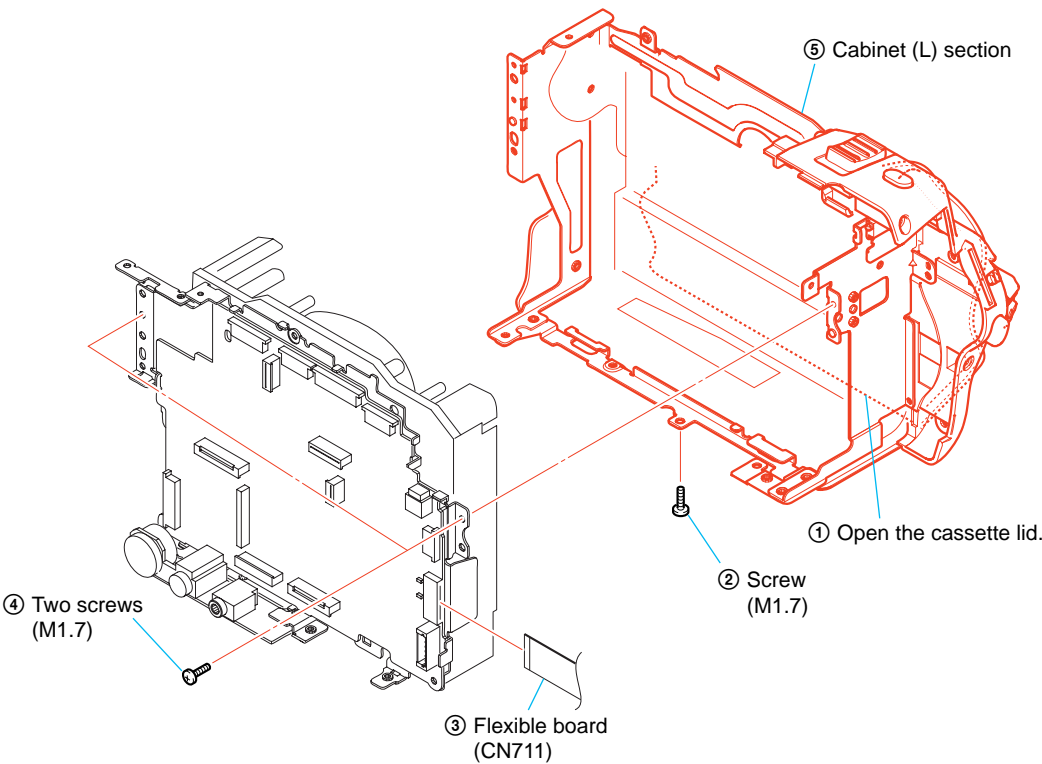
2-17.LENS BLOCK ASSEMBLY



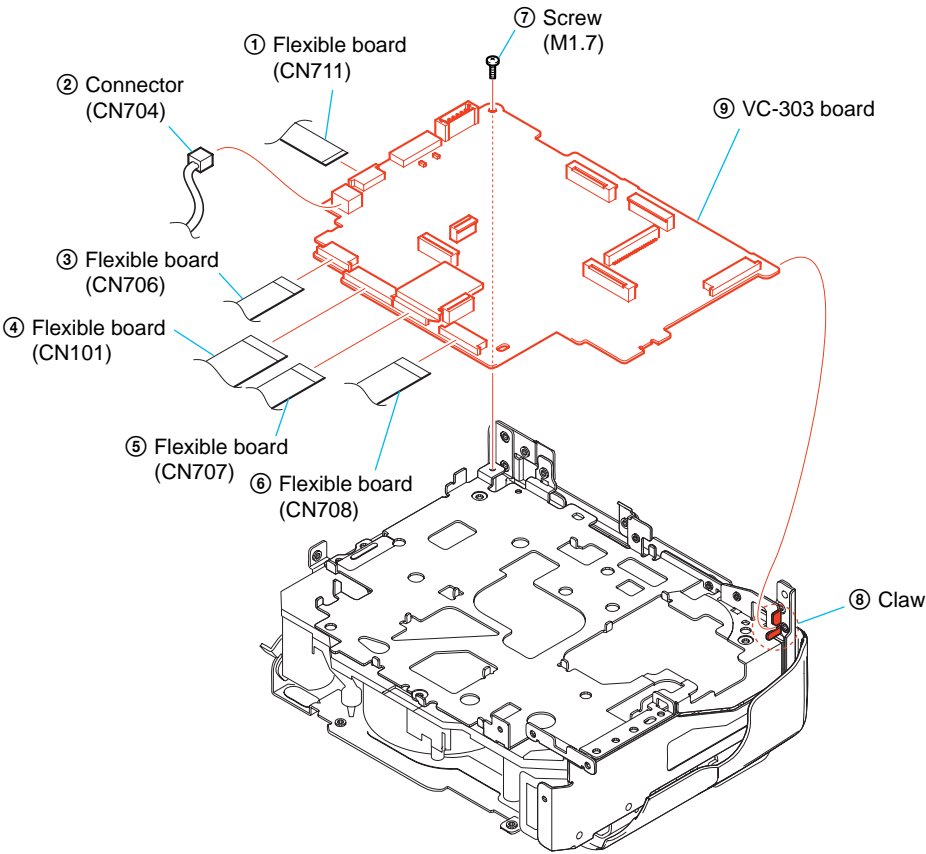
2-18.FP-576 FLEXIBLE BOARD



2-19.CABINET (L) SECTION



2-20.VC-303 BOARD



[SERVICE POSITION TO CHECK VC-303 BOARD (SIDE B)]

Connection to Check VC-303 Board (Side B)

To check VC-303 board (side B), set the camera or VTR to the "Forced camera power ON" mode. Operate the camera functions of the zoom and focus, the VTR section using the adjustment remote commander (with the HOLD switch set in the OFF position).

Setting the "Forced Camera Power ON" mode

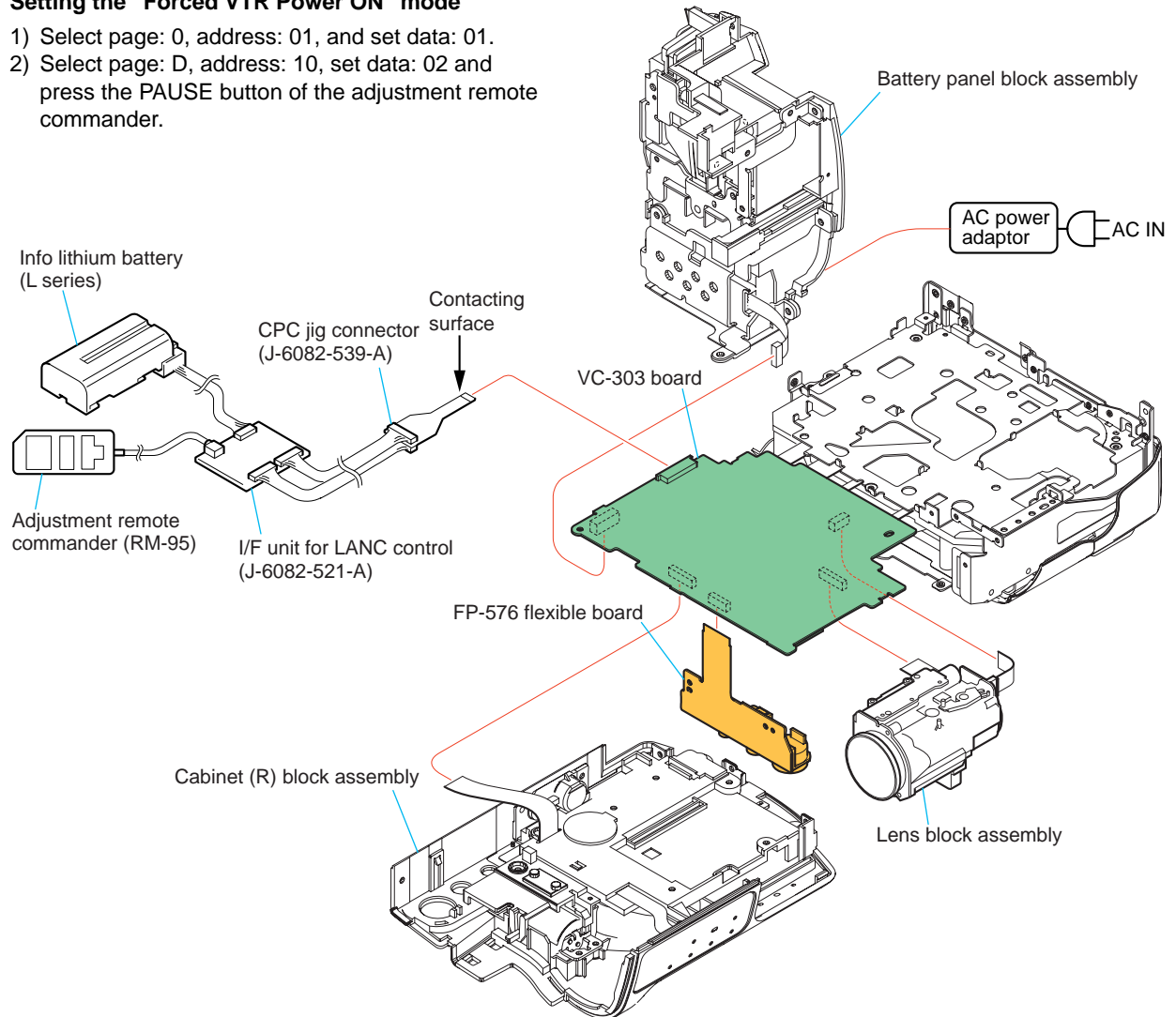
- 1) Select page: O, address: 01, and set data: 01.
- 2) Select page: D, address: 10, set data: 01 and press the PAUSE button of the adjustment remote commander.

Exiting the "Forced Power ON" mode

- 1) Select page: O, address: 01, and set data: 01.
- 2) Select page: D, address: 10, data: 00, and press the PAUSE button of the adjustment remote commander.
- 3) Select page : 0, address: 01, and set data: 00.

Setting the "Forced VTR Power ON" mode

- 1) Select page: 0, address: 01, and set data: 01.
- 2) Select page: D, address: 10, set data: 02 and press the PAUSE button of the adjustment remote commander.



[SERVICE POSITION TO CHECK THE MECHANISM DECK]

Connection to Check the Mechanism deck

To check the mechanism deck, set the VTR to the "Forced VTR power ON" mode. (Or, connect the control switch block (SS-3000) to the CN711 of VC-303 board and set the power switch to the "PLAYER" position.)

Operate the VTR function using the adjustment remote commander (with the HOLD switch set in the OFF position).

Setting the "Forced VTR Power ON" mode

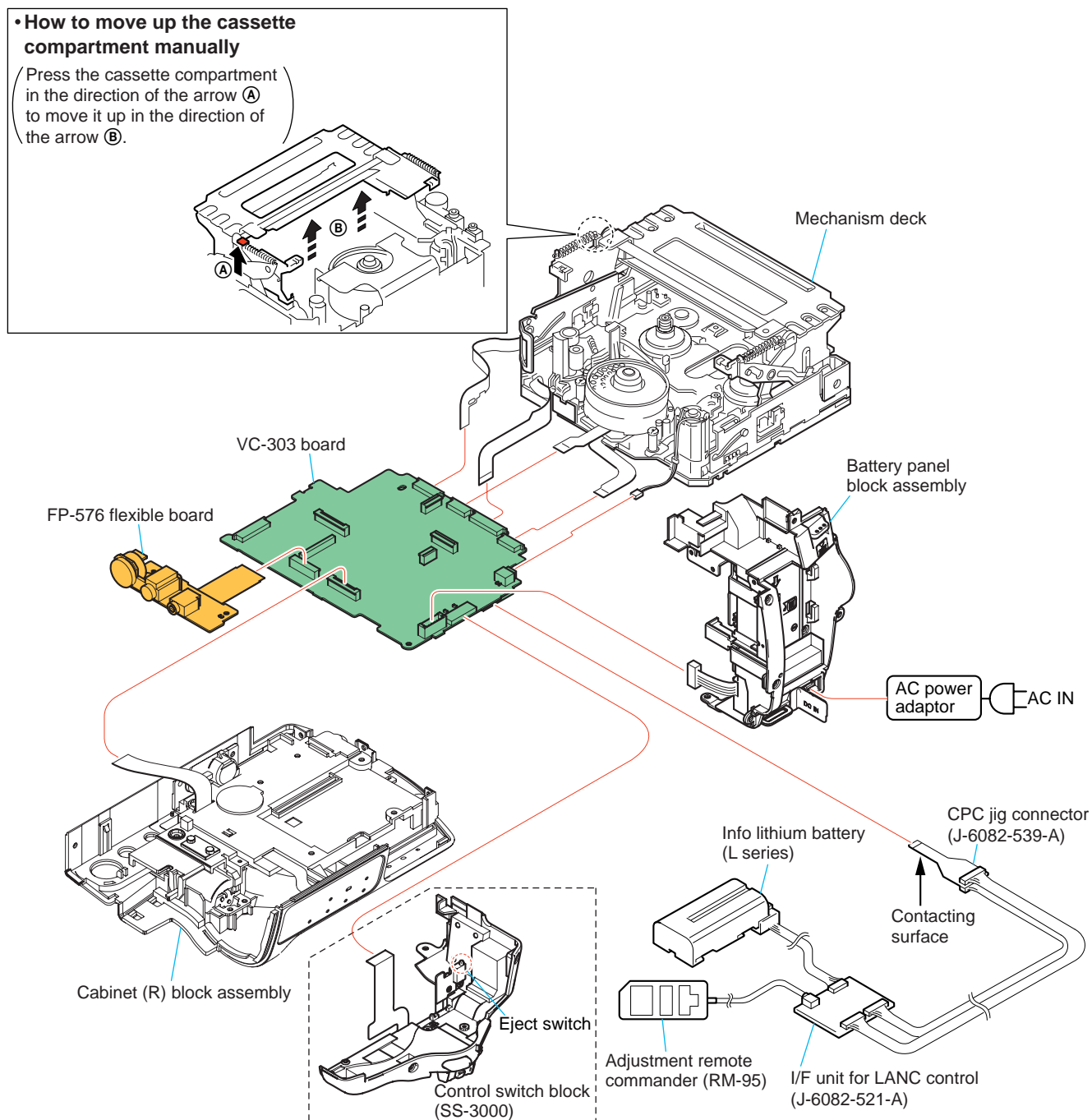
- 1) Select page: 0, address: 01, and set data: 01.
- 2) Select page: D, address: 10, set data: 02 and press the PAUSE button of the adjustment remote commander.

Exiting the "Forced VTR Power ON" mode

- 1) Select page: 0, address: 01, and set data: 01.
- 2) Select page: D, address: 10, data: 00, and press the PAUSE button of the adjustment remote commander.
- 3) Select page: 0, address: 01, and set data: 00.

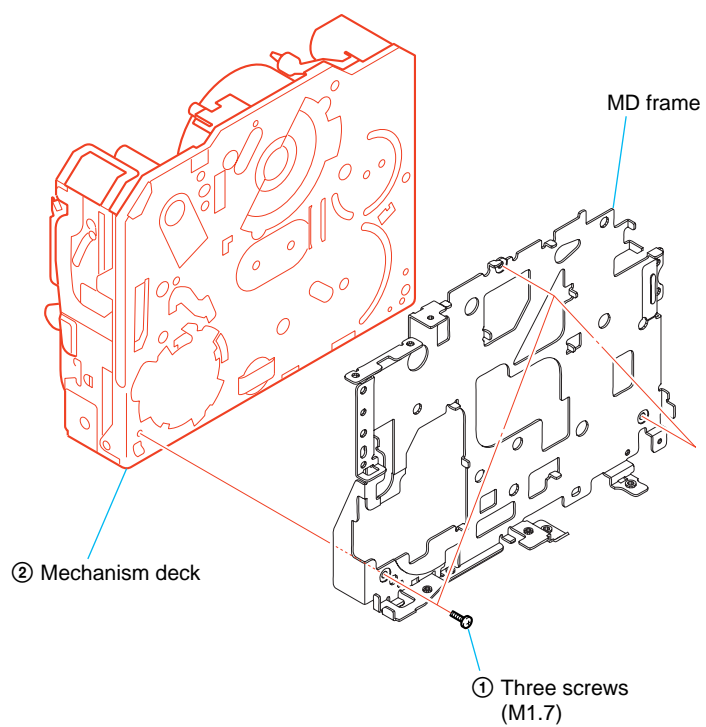
•How to move up the cassette compartment manually

(Press the cassette compartment in the direction of the arrow (A) to move it up in the direction of the arrow (B).



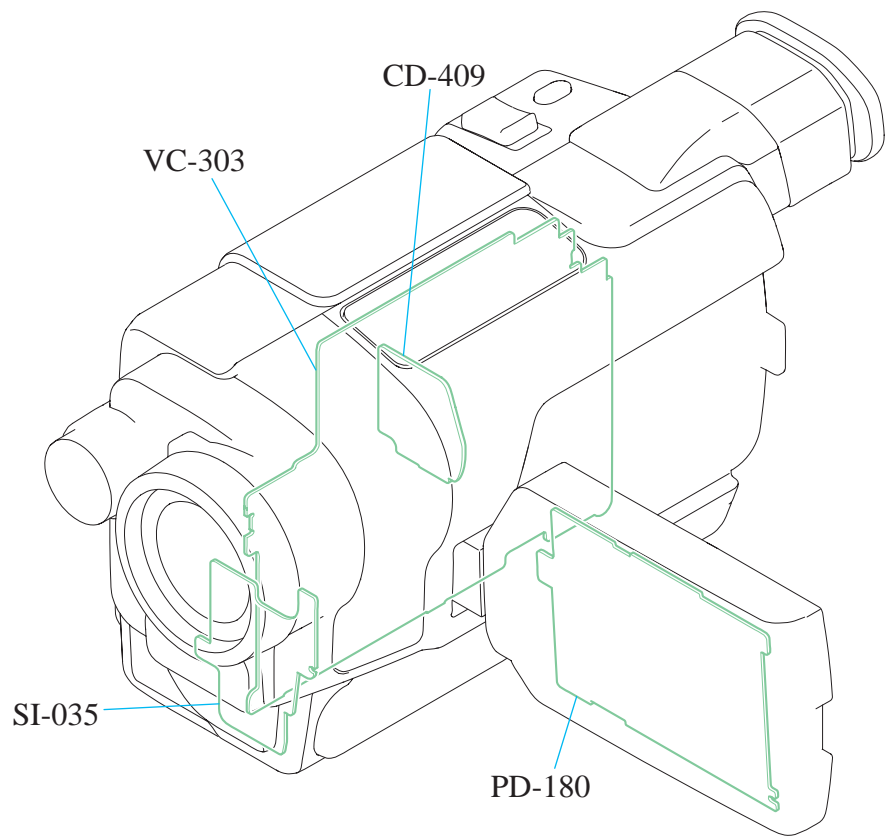
When exiting the "Forced VTR Power ON" mode, connect the control switch block (SS-3000) to the CN711 of VC-303 board. Or, when ejecting the cassette, connect the control switch block (SS-3000) to the CN711 of VC-303 board. and press the EJECT switch.

2-21.MECHANISM DECK BLOCK





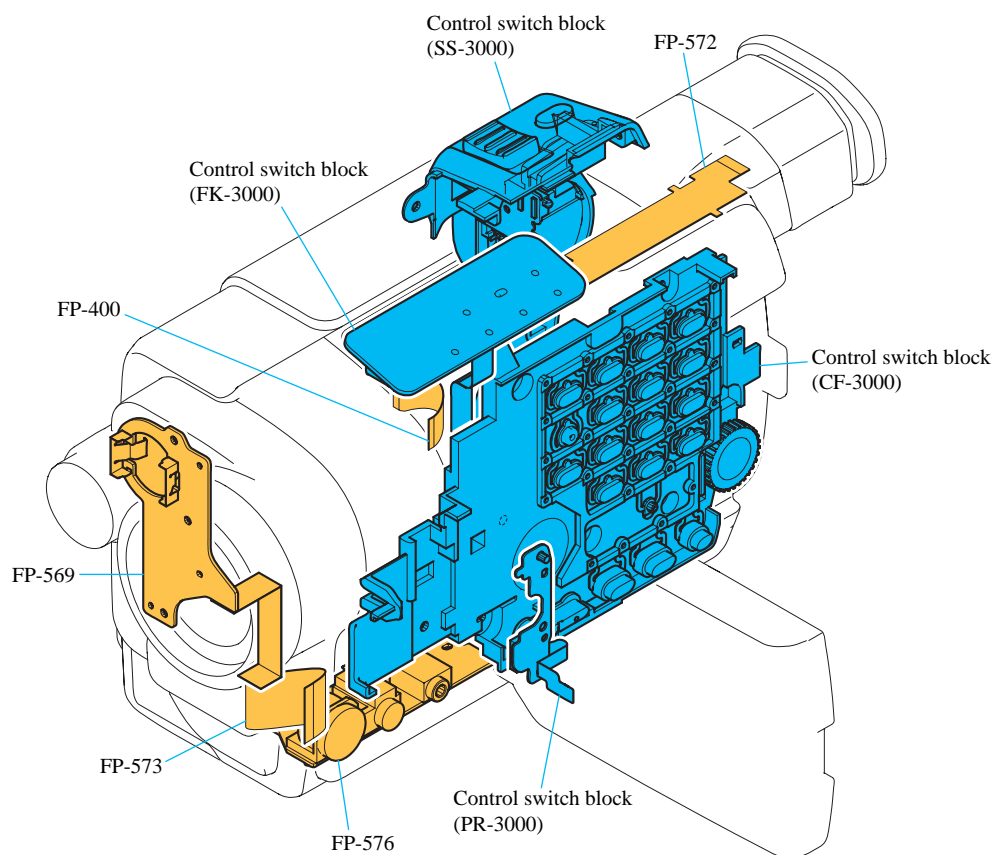
2-22.CIRCUIT BOARDS LOCATION



Board Name	Function
CD-409	CCD IMAGER
PD-180	RGB DRIVE, TIMING GENERATOR, BACKLIGHT DRIVE
SI-035	STEADYSHOT, MIC
VC-303	A/D CONVERTER, TIMING GENERATOR, CAMERA PROCESS, LENS CONTROL, LENS DRIVE, REC/PB AMP, SERVO, CAMERA/MECHA CONTROL, HI CONTROL, EVF DRIVE, VIDEO, DC CONTROL



2-23.FLEXIBLE BOARDS LOCATION

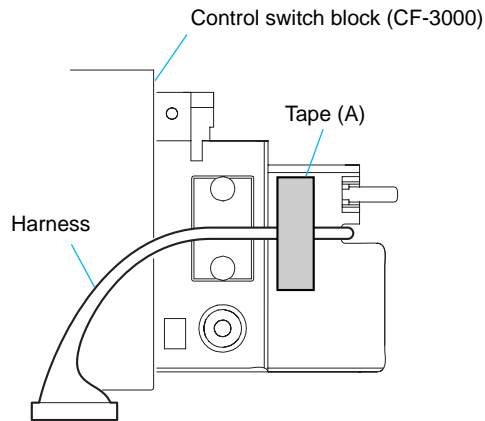




HELP

Sheet attachment positions and procedures of processing the flexible boards/harnesses are shown.

CABINET (R) BLOCK ASSEMBLY



When installing Control switch block (CF-3000), set harness and tape (A) as shown in the figure.



3. BLOCK DIAGRAMS

Link

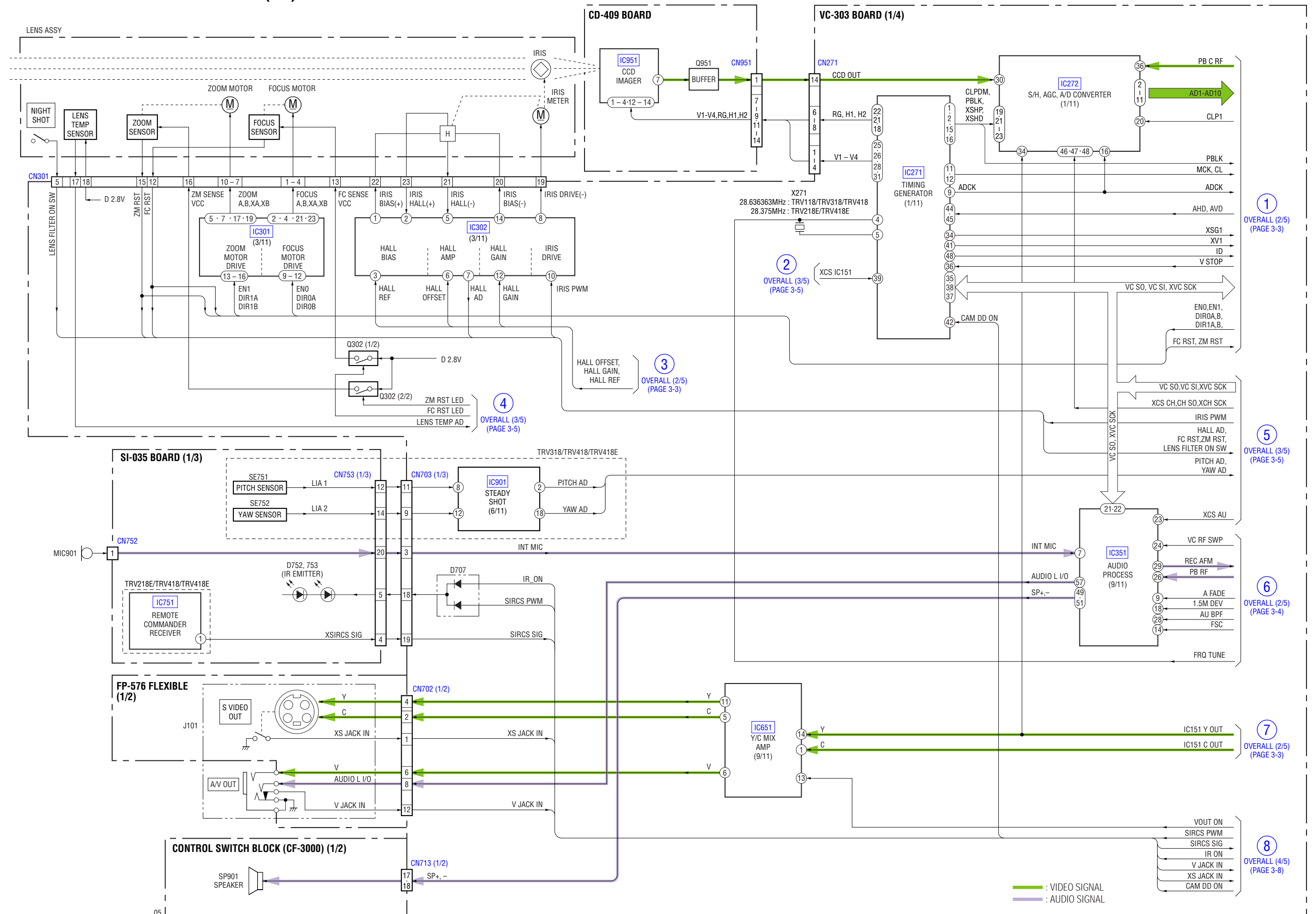
OVERALL BLOCK DIAGRAM (1/5)	OVERALL BLOCK DIAGRAM (5/5)
OVERALL BLOCK DIAGRAM (2/5)	POWER BLOCK DIAGRAM (1/2)
OVERALL BLOCK DIAGRAM (3/5)	POWER BLOCK DIAGRAM (2/2)
OVERALL BLOCK DIAGRAM (4/5)	



SECTION 3 BLOCK DIAGRAMS

3. BLOCK DIAGRAMS

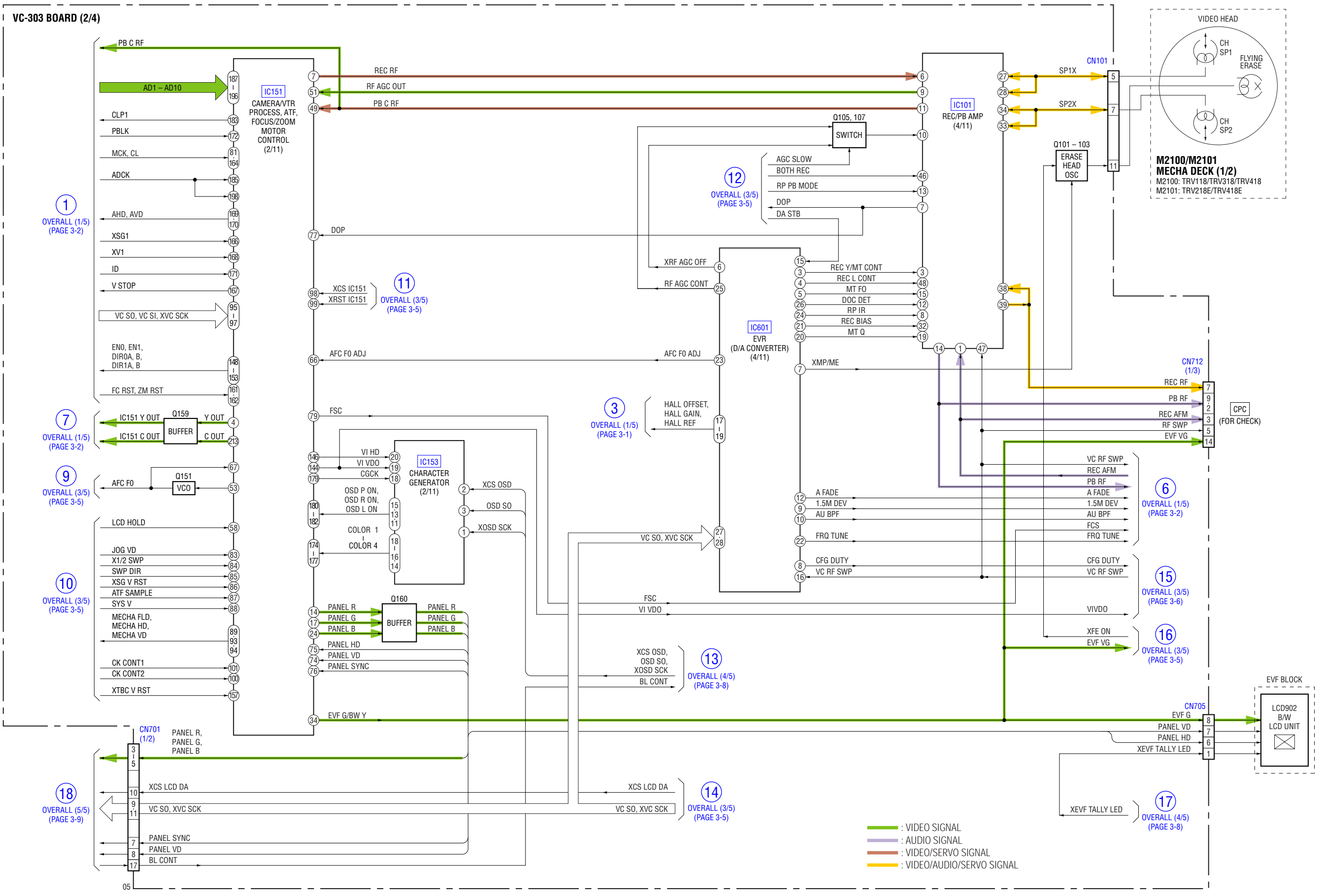
3-1. OVERALL BLOCK DIAGRAM (1/5) () : Number in parenthesis () indicates the division number of schematic diagram where the component is located.





3. BLOCK DIAGRAMS

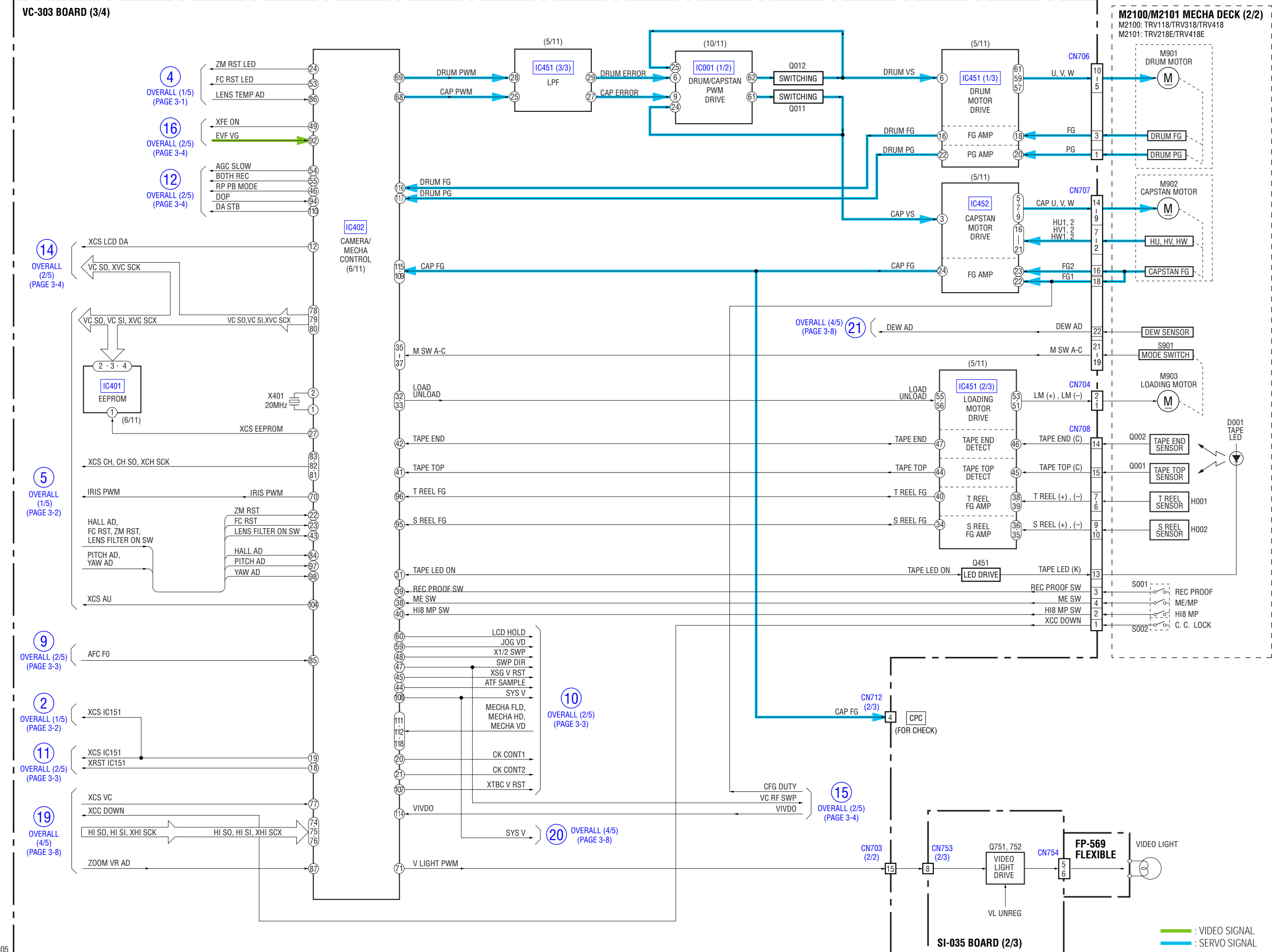
3-2. OVERALL BLOCK DIAGRAM (2/5) () : Number in parenthesis () indicates the division number of schematic diagram where the component is located.





3. BLOCK DIAGRAMS

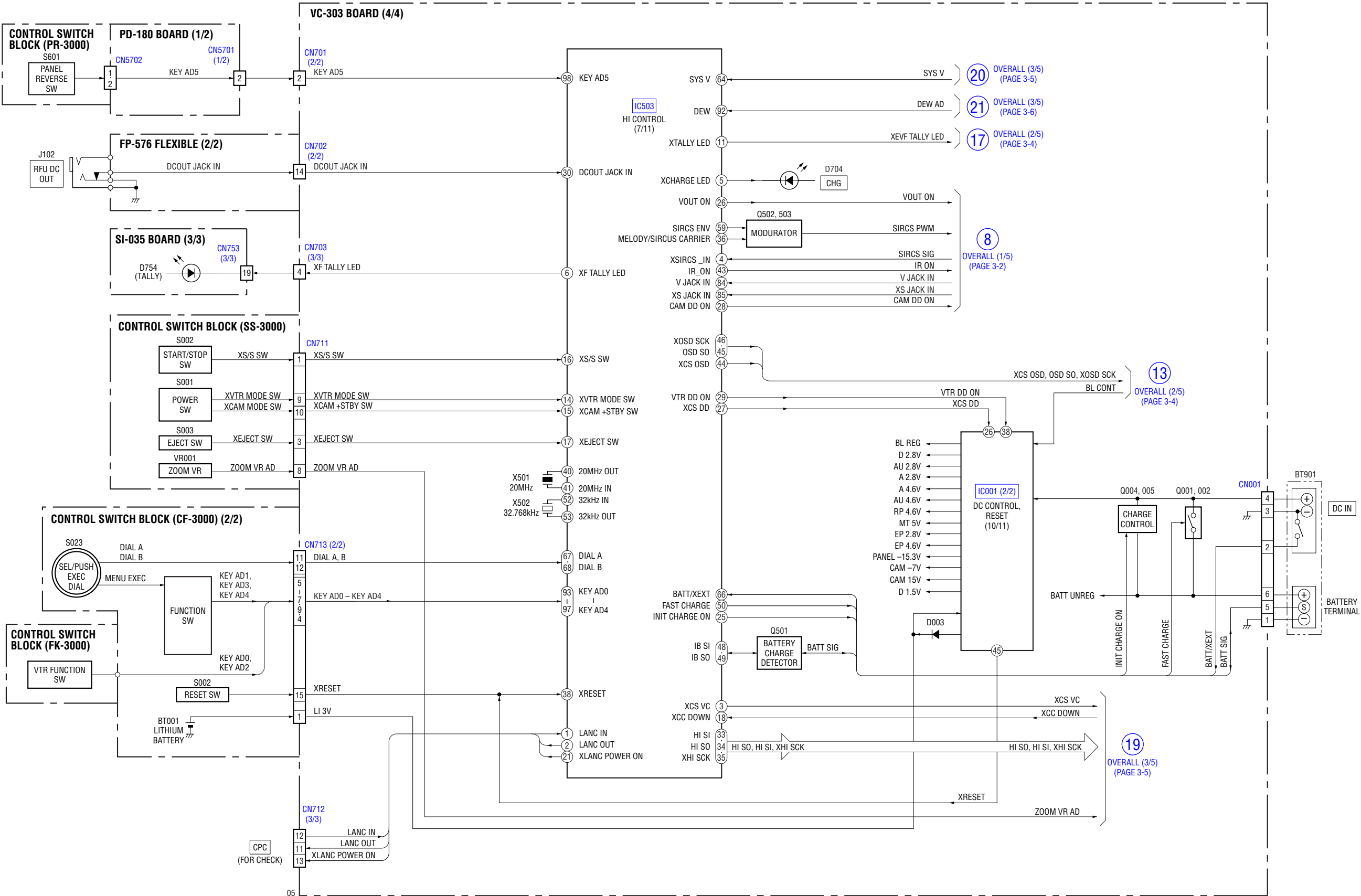
3-3. OVERALL BLOCK DIAGRAM (3/5) () : Number in parenthesis () indicates the division number of schematic diagram where the component is located.

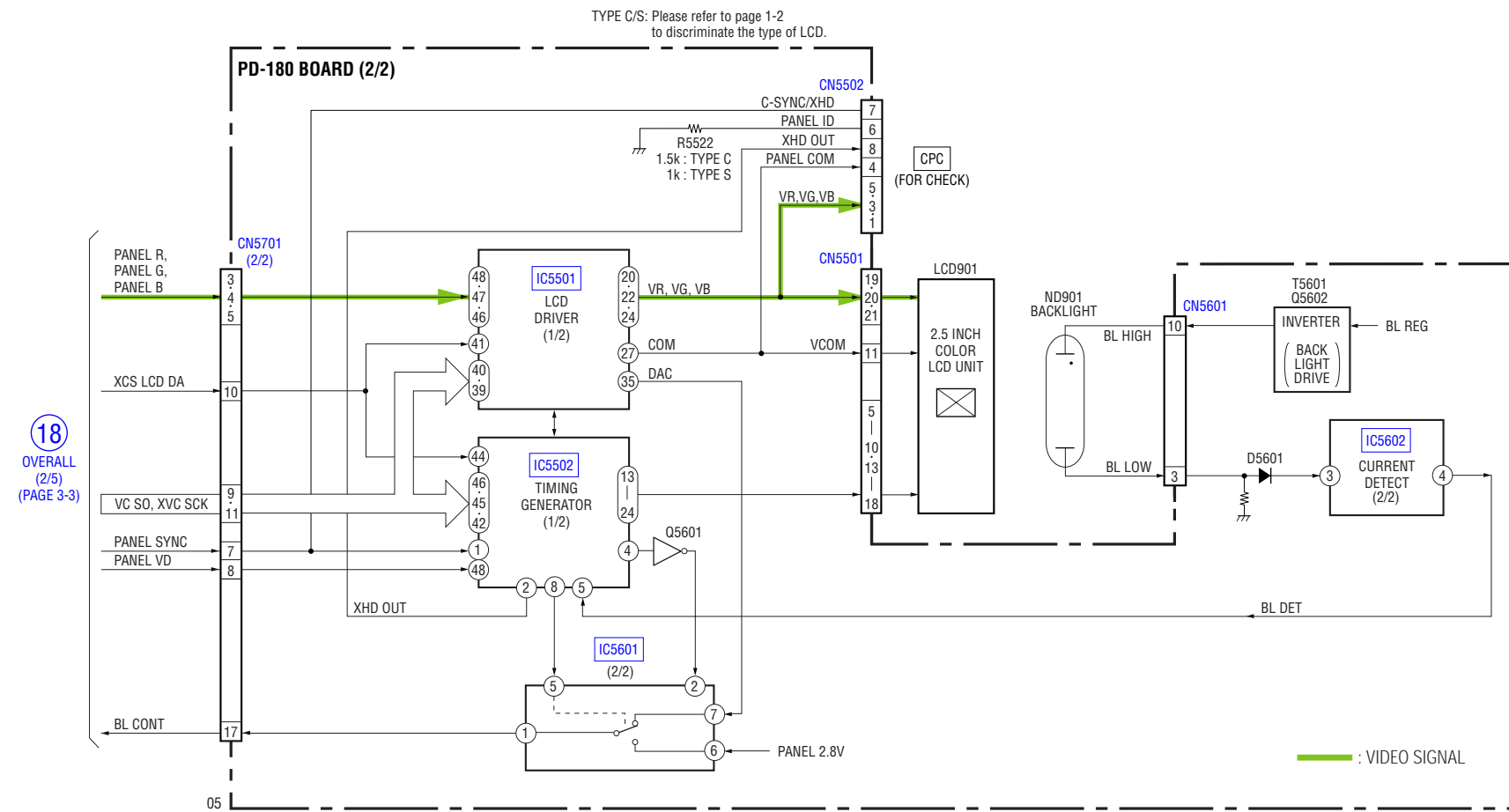




3. BLOCK DIAGRAMS

3-4. OVERALL BLOCK DIAGRAM (4/5) () : Number in parenthesis () indicates the division number of schematic diagram where the component is located.

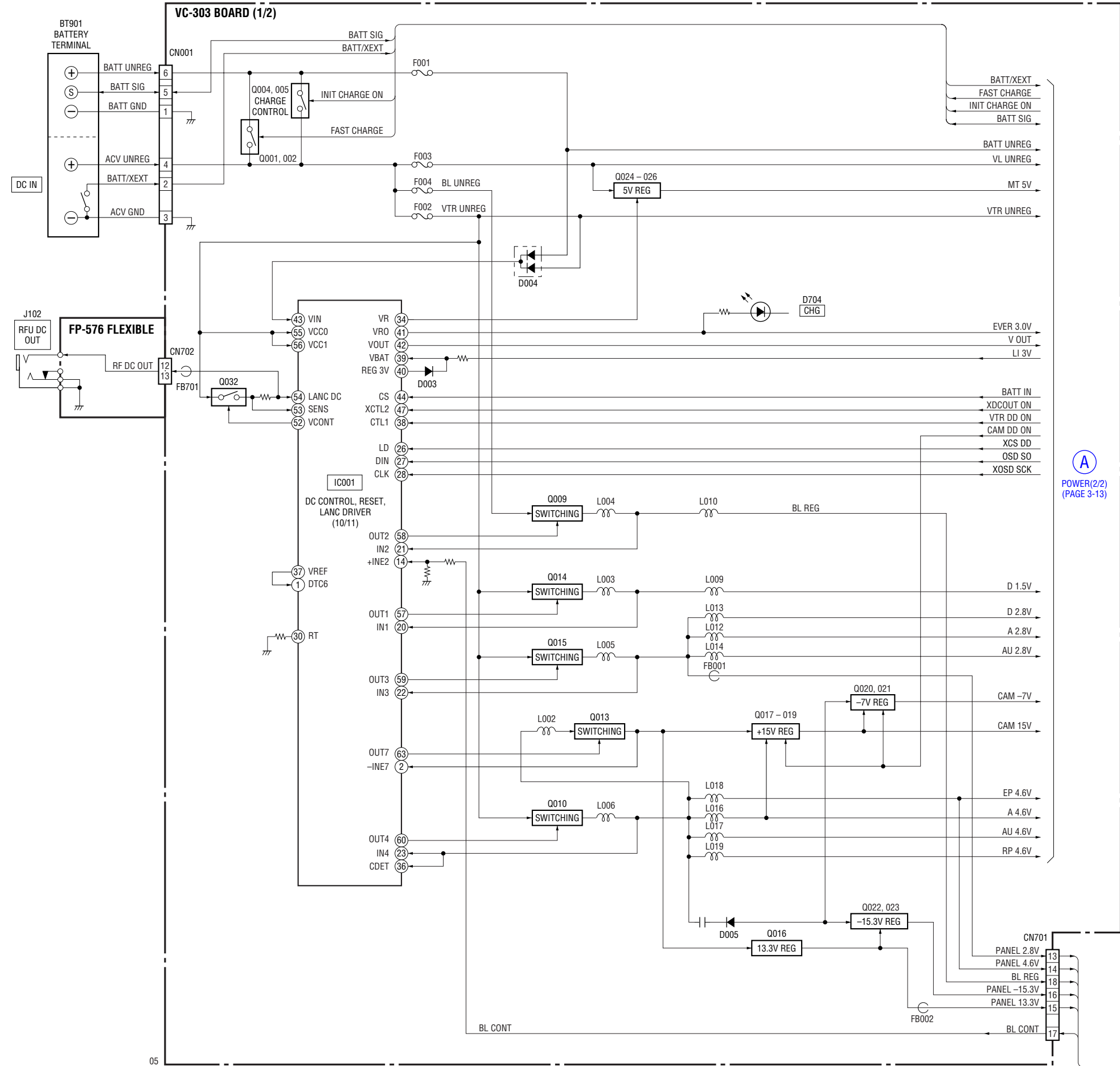


**3. BLOCK DIAGRAMS****3-5. OVERALL BLOCK DIAGRAM (5/5)** () : Number in parenthesis () indicates the division number of schematic diagram where the component is located.



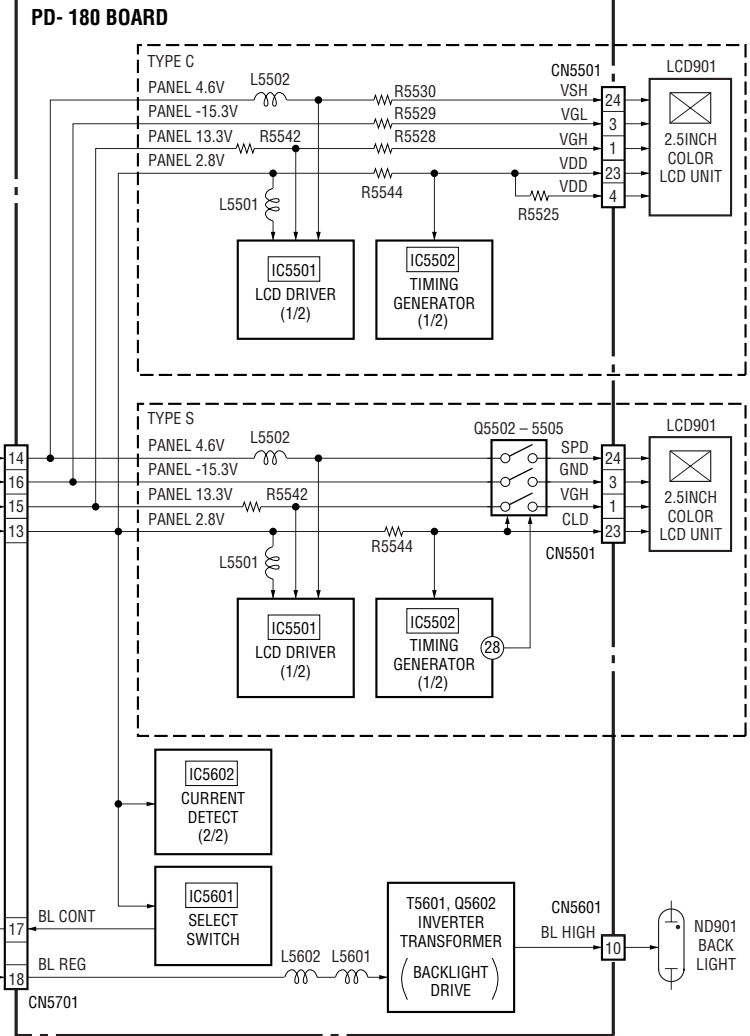
3. BLOCK DIAGRAMS

3-6. POWER BLOCK DIAGRAM (1/2) () : Number in parenthesis () indicates the division number of schematic diagram where the component is located.

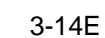


A
POWER(2/2)
(PAGE 3-13)

TYPE C/S: Please refer to page 1-2 to discriminate the type of LCD.



3-7. POWER BLOCK DIAGRAM (2/2) () : Number in parenthesis () indicates the division number of schematic diagram where the component is located.

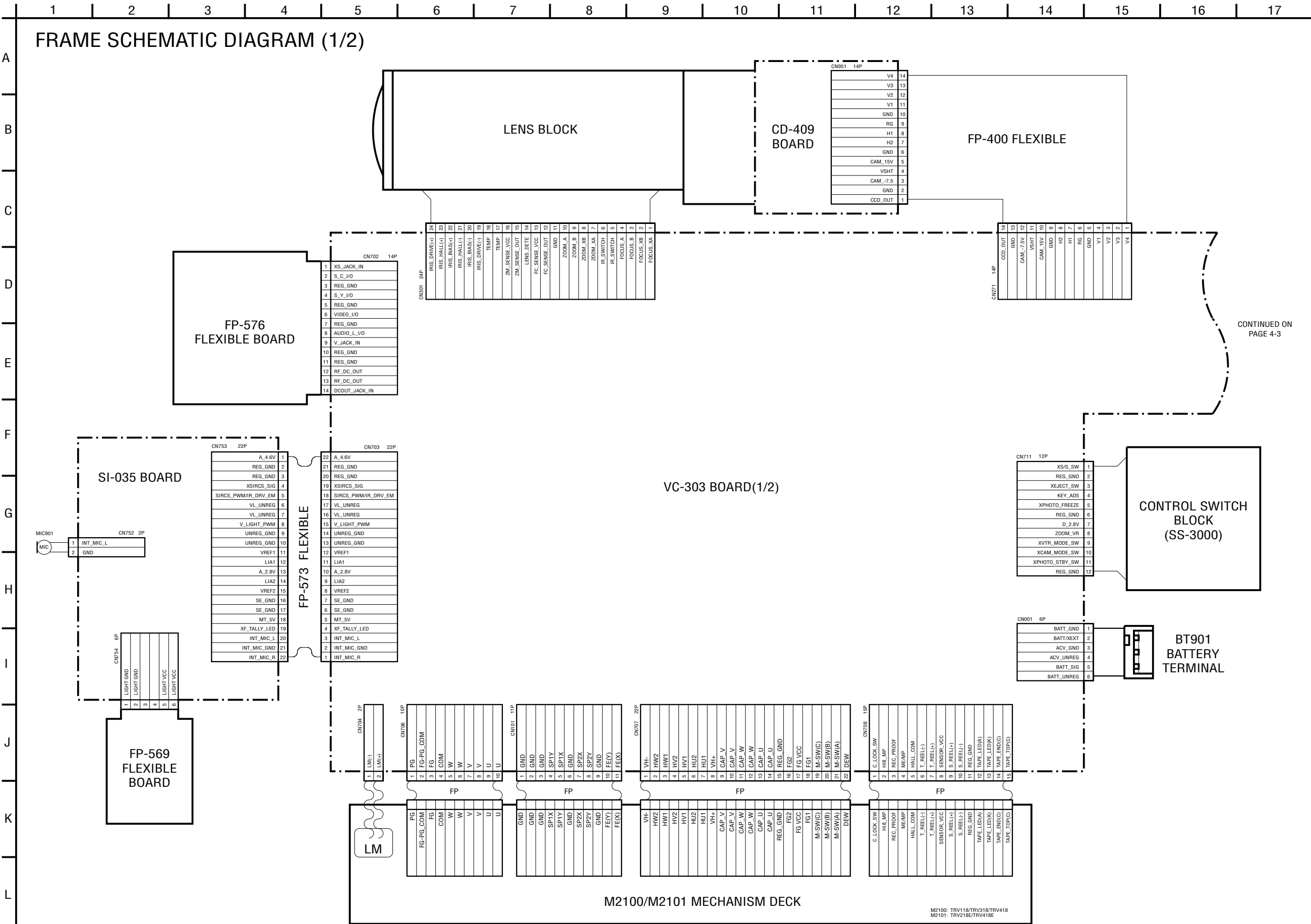




SECTION 4

PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

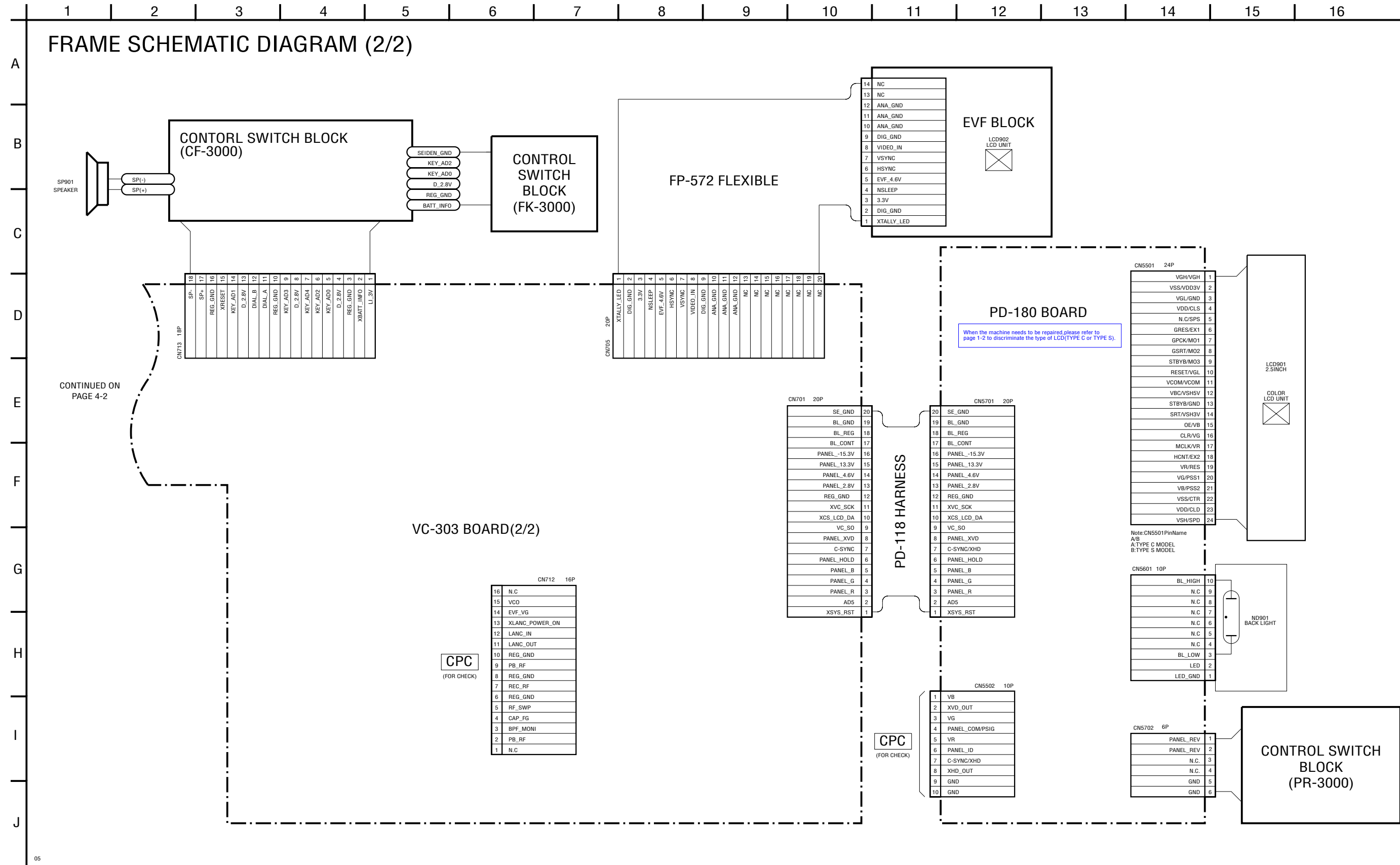
4-1. FRAME SCHEMATIC DIAGRAMS





4-2. SCHEMATIC DIAGRAMS

4-3. PRINTED WIRING BOARDS





4-2. SCHEMATIC DIAGRAMS

4-2. SCHEMATIC DIAGRAMS

THIS NOTE IS COMMON FOR SCHEMATIC DIAGRAMS

(In addition to this, the necessary note is printed in each block)

(For schematic diagrams)

- All capacitors are in μF unless otherwise noted. pF : μF . 50 V or less are not indicated except for electrolytics and tantalums.
- Chip resistors are 1/10 W unless otherwise noted. $\text{k}\Omega=1000 \Omega$, $\text{M}\Omega=1000 \text{k}\Omega$.
- Caution when replacing chip parts.
New parts must be attached after removal of chip.
Be careful not to heat the minus side of tantalum capacitor, Because it is damaged by the heat.
- Some chip part will be indicated as follows.

Example	C541	L452
	22U	10UH
	TA A	2520
Kinds of capacitor		
Case size		
External dimensions (mm)		

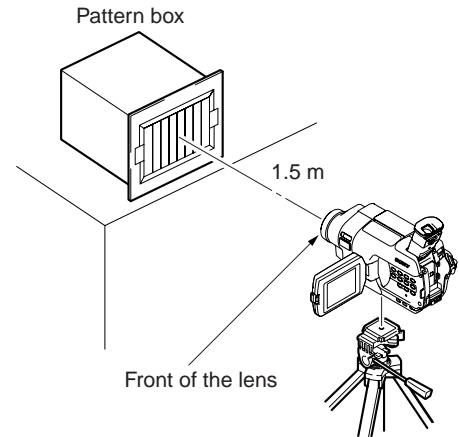
- Constants of resistors, capacitors, ICs and etc with XX indicate that they are not used.
In such cases, the unused circuits may be indicated.
- Parts with ★ differ according to the model/destination.
Refer to the mount table for each function.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- Signal name
XEDIT → EDIT PB/XREC → PB/REC
- : non flammable resistor
- : fusible resistor
- : panel designation
- : B+ Line
- : B- Line
- : IN/OUT direction of (+,-) B LINE.
- : adjustment for repair.
- : VIDEO SIGNAL (ANALOG)
- : AUDIO SIGNAL (ANALOG)
- : VIDEO/AUDIO SIGNAL
- : VIDEO/AUDIO/SERVO SIGNAL
- : VIDEO/SERVO SIGNAL
- : SERVO SIGNAL
- Circled numbers refer to waveforms.

(Measuring conditions voltage and waveform)

- Voltages and waveforms are measured between the measurement points and ground when camera shoots color bar chart of pattern box. They are reference values and reference waveforms.
(VOM of DC 10 $\text{M}\Omega$ input impedance is used)
- Voltage values change depending upon input impedance of VOM used.)

Note : The components identified by mark \triangle or dotted line with mark \triangle are critical for safety.
Replace only with part number specified.

1. Connection



2. Adjust the distance so that the output waveform of Fig. a and the Fig. b can be obtain.

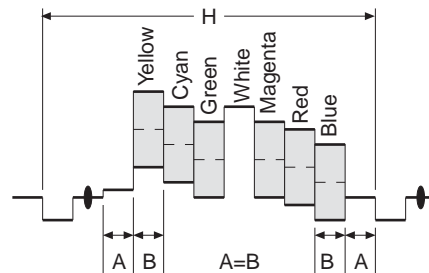


Fig. a (Video output terminal output waveform)

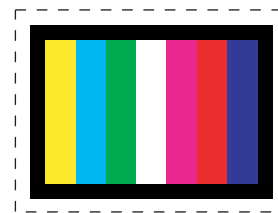


Fig.b (Picture on monitor TV)

When indicating parts by reference number, please include the board name.

Note : Les composants identifiés par une marque \triangle sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.



4-2. SCHEMATIC DIAGRAMS

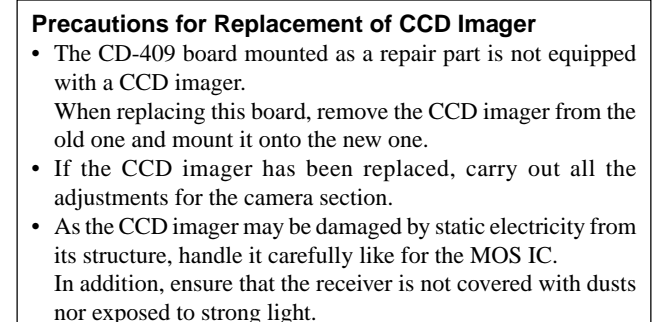
Link

• CD-409 BOARD (CCD IMAGER)	• VC-303 BOARD (10/11) (DC CONTROL)
• VC-303 BOARD (1/11) (A/D CONVERTER, TIMING GENERATOR)	• VC-303 BOARD (11/11) (CONNECTOR)
• VC-303 BOARD (2/11) (CAMERA/VTR PROCESS, LENS CONTROL)	• PD-180 BOARD (1/2) (RGB DRIVE, TIMING GENERATOR)
• VC-303 BOARD (3/11) (LENS DRIVE)	• PD-180 BOARD (2/2) (BACKLIGHT DRIVE)
• VC-303 BOARD (4/11) (REC/PB AMP)	• SI-035 BOARD (STEADYSHOT, MIC) FP-569 FLEXIBLE BOARD
• VC-303 BOARD (5/11) (SERVO)	• FP-576 FLEXIBLE BOARD
• VC-303 BOARD (6/11) (CAMERA/MECHA CONTROL)	• LS-057 BOARD (S/T REEL SENSOR) FP-228, FP-299, FP-300, FP-301, FP-302 FLEXIBLE BOARD
• VC-303 BOARD (7/11) (HI CONTROL)	• CONTROL SWITCH BLOCK (CF-3000, FK-3000)
• VC-303 BOARD (8/11) (EVF DRIVE)	• CONTROL SWITCH BLOCK (SS-3000, PR-3000)
• VC-303 BOARD (9/11) (AUDIO, VIDEO)	

• COMMON NOTE FOR SCHEMATIC DIAGRAMS

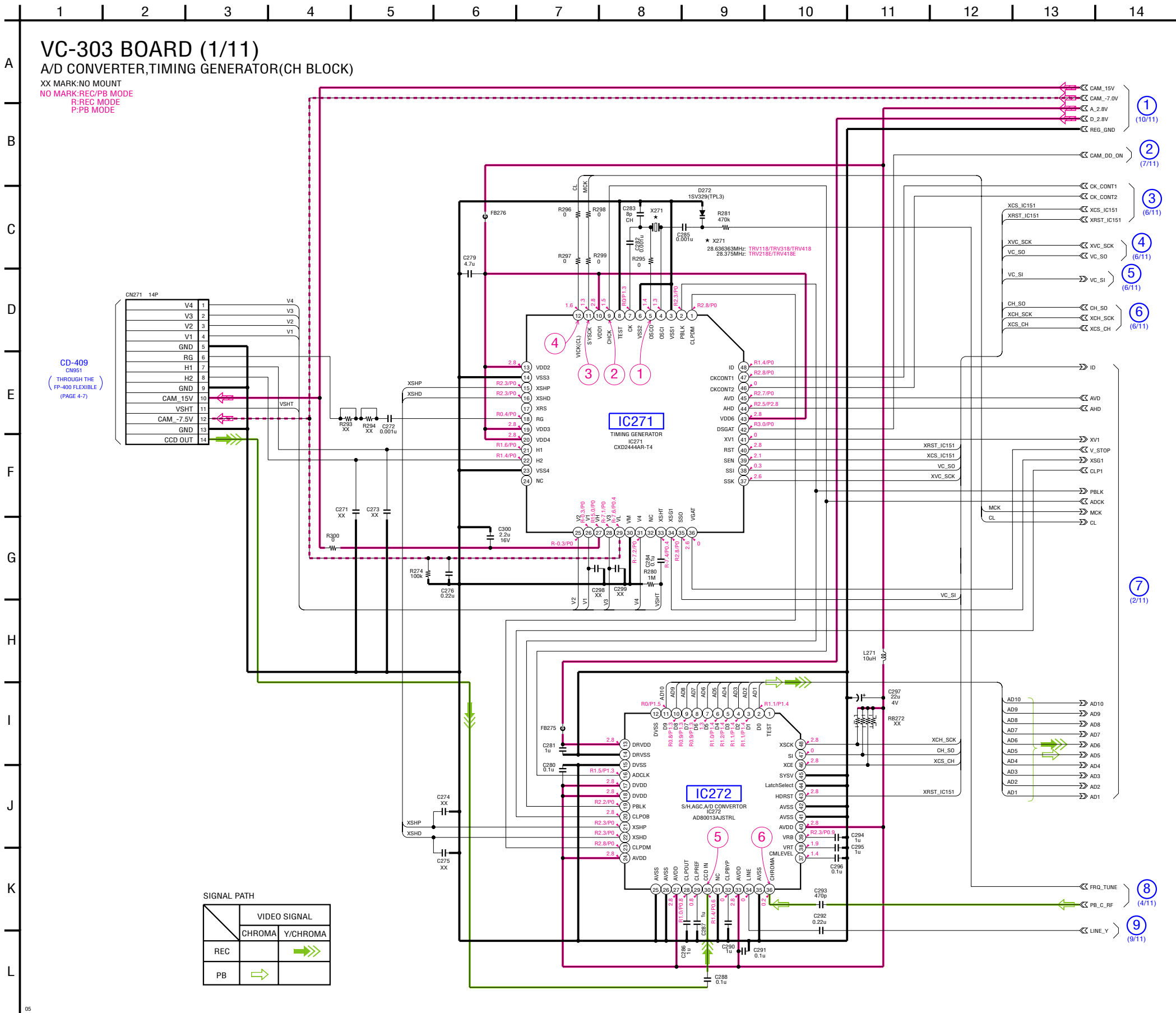
• WAVEFORMS

- Refer to page 4-45 for printed wiring board.
- Refer to page 4-61 for waveforms.



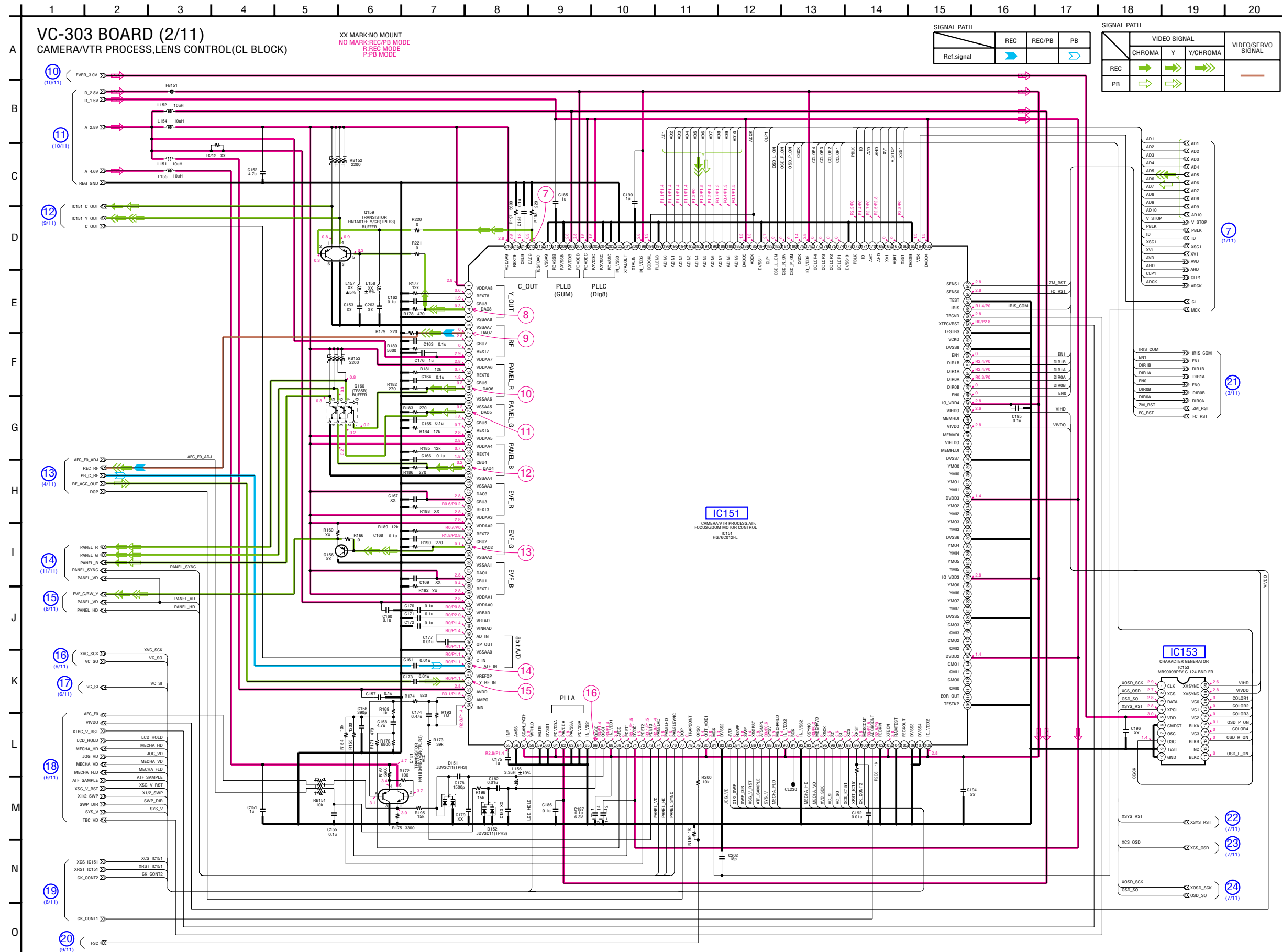
VC-303 BOARD SIDE B

- Refer to page 4-47 for printed wiring board.
- Refer to page 4-62 for waveforms.



VC-303 BOARD SIDE B

- Refer to page 4-47 for printed wiring board.
- Refer to page 4-62, 4-63 for waveforms.



21
(2/11)



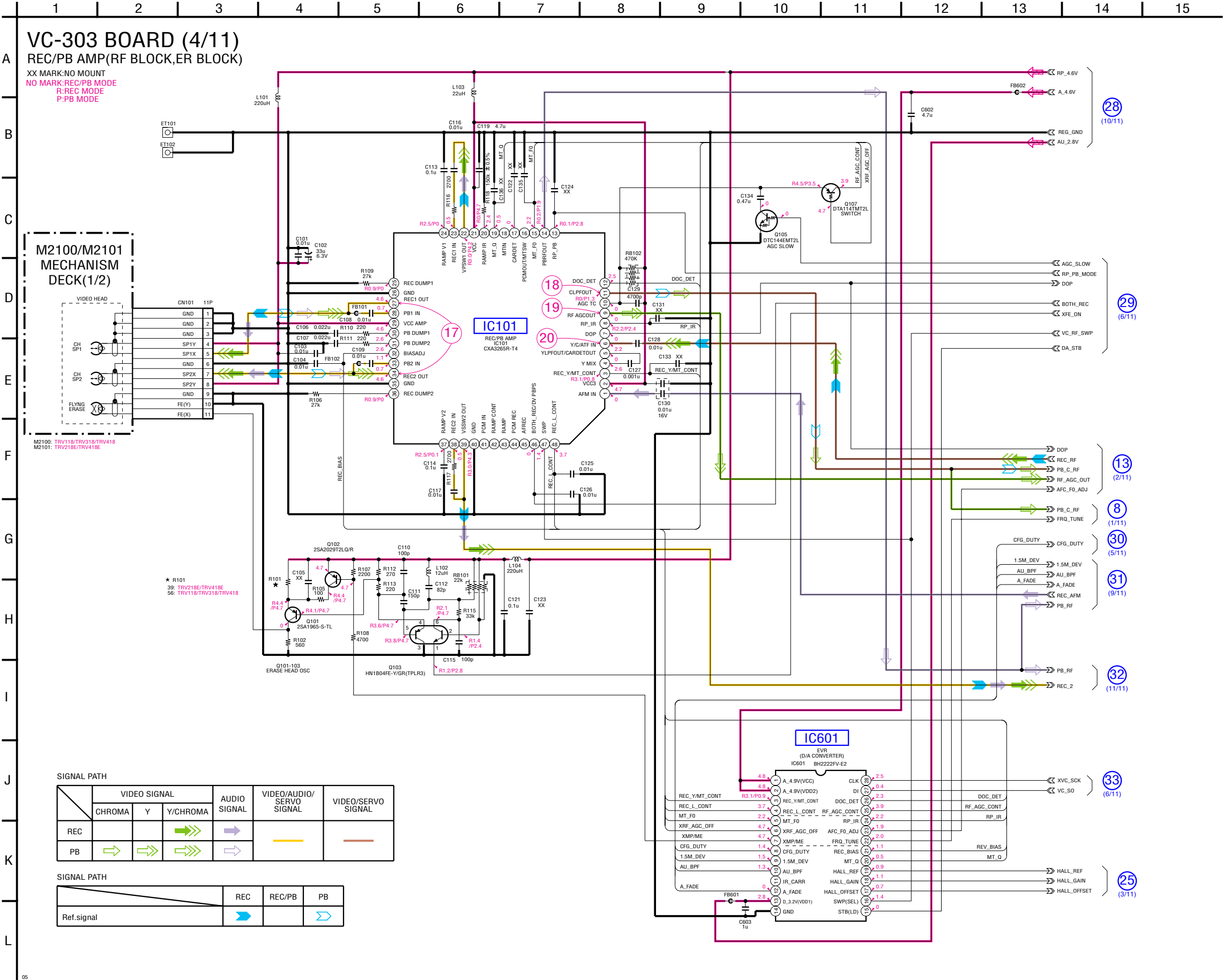
4-2. SCHEMATIC DIAGRAMS

VC-303 BOARD SIDE A

VC-303 BOARD SIDE B

For Schematic Diagram

- Refer to page 4-47 for printed wiring board.
- Refer to page 4-63 for waveforms.





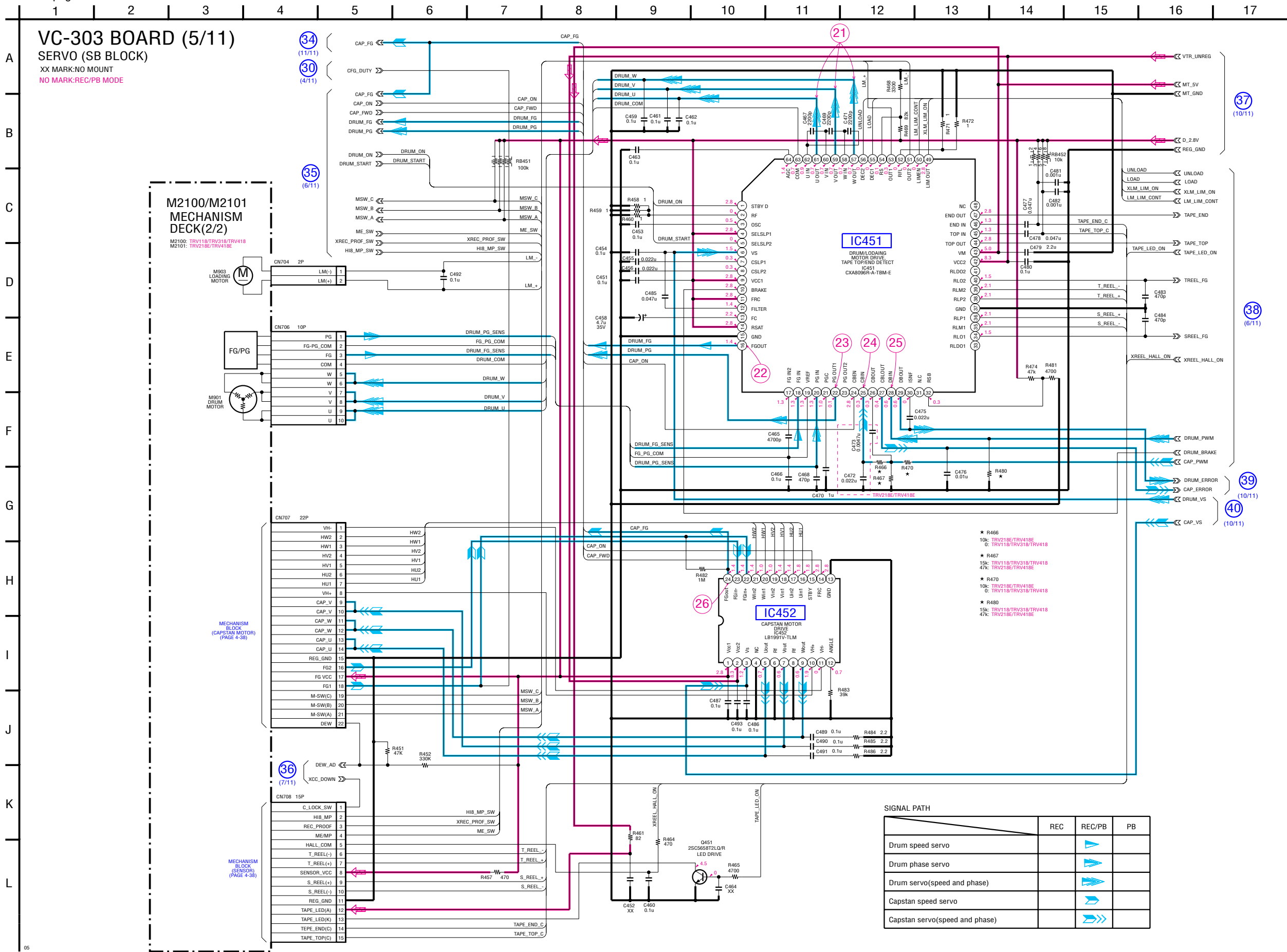
4-2. SCHEMATIC DIAGRAMS

VC-303 BOARD SIDE A

VC-303 BOARD SIDE B

For Schematic Diagram

- Refer to page 4-47 for printed wiring board.
- Refer to page 4-64 for waveforms.





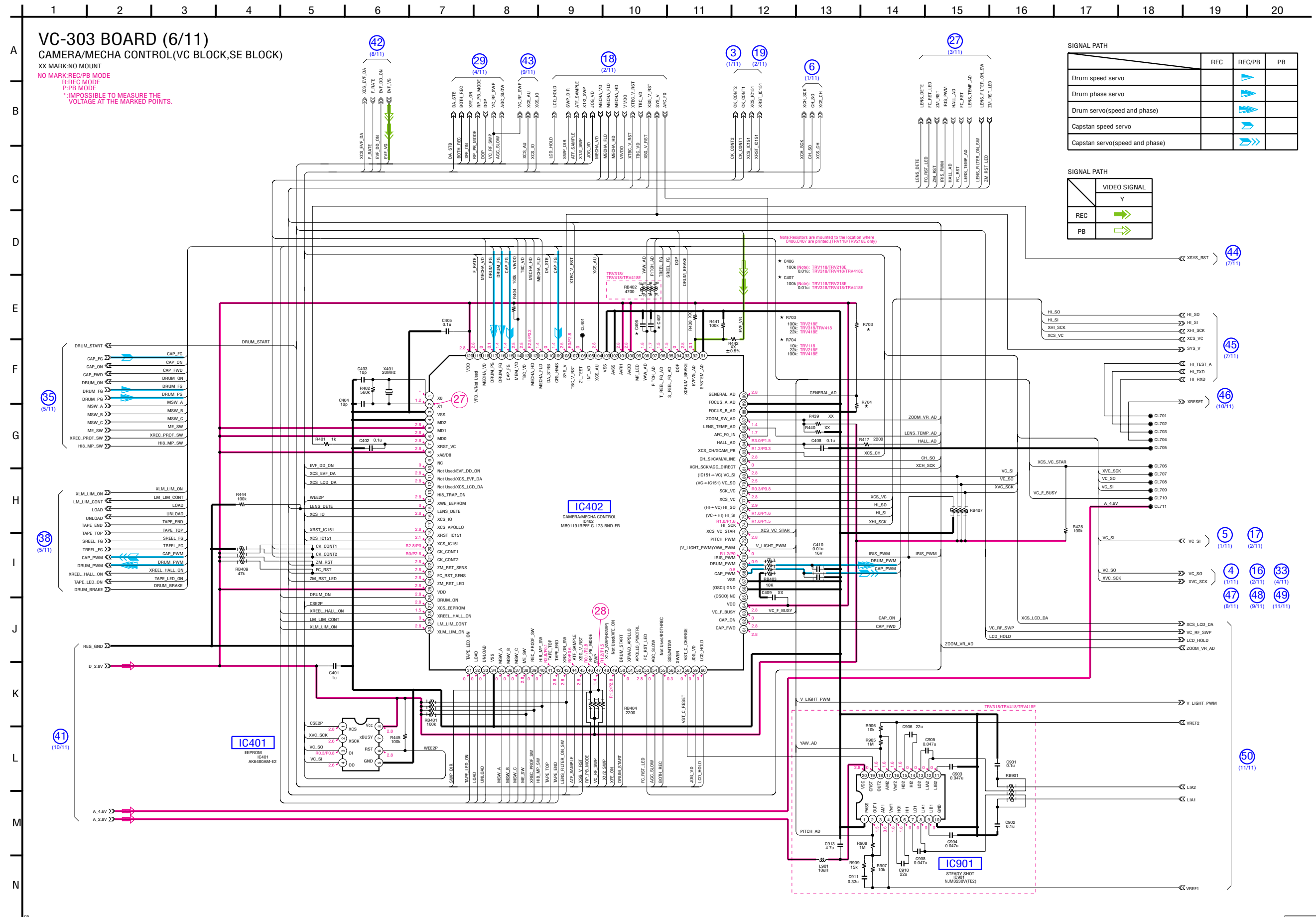
4-2. SCHEMATIC DIAGRAMS

VC-303 BOARD SIDE A

VC-303 BOARD SIDE B

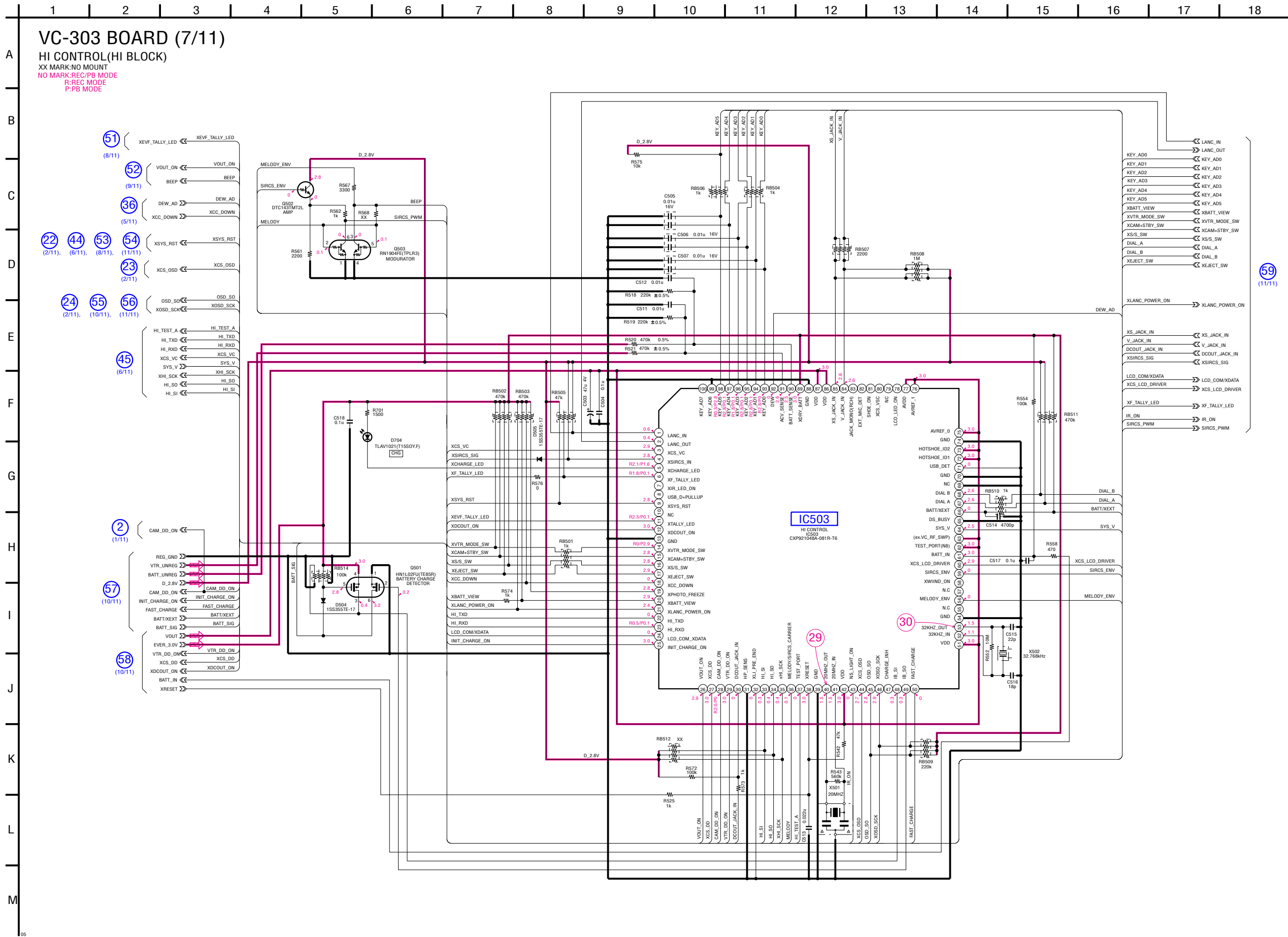
For Schematic Diagram

- Refer to page 4-47 for printed wiring board.
- Refer to page 4-64 for waveforms.



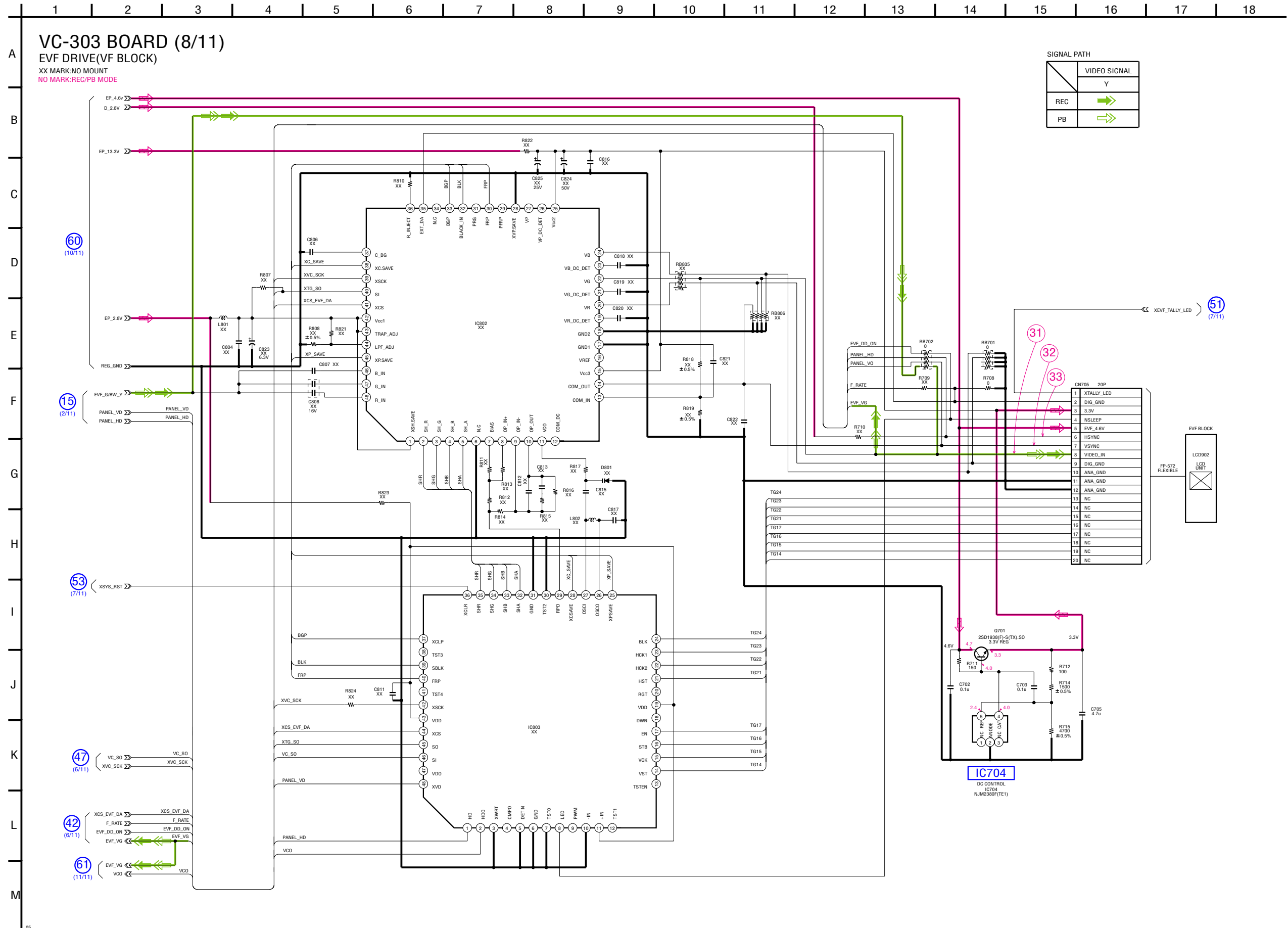
VC-303 BOARD SIDE B

- Refer to page 4-47 for printed wiring board.
- Refer to page 4-64 for waveforms.



VC-303 BOARD SIDE B

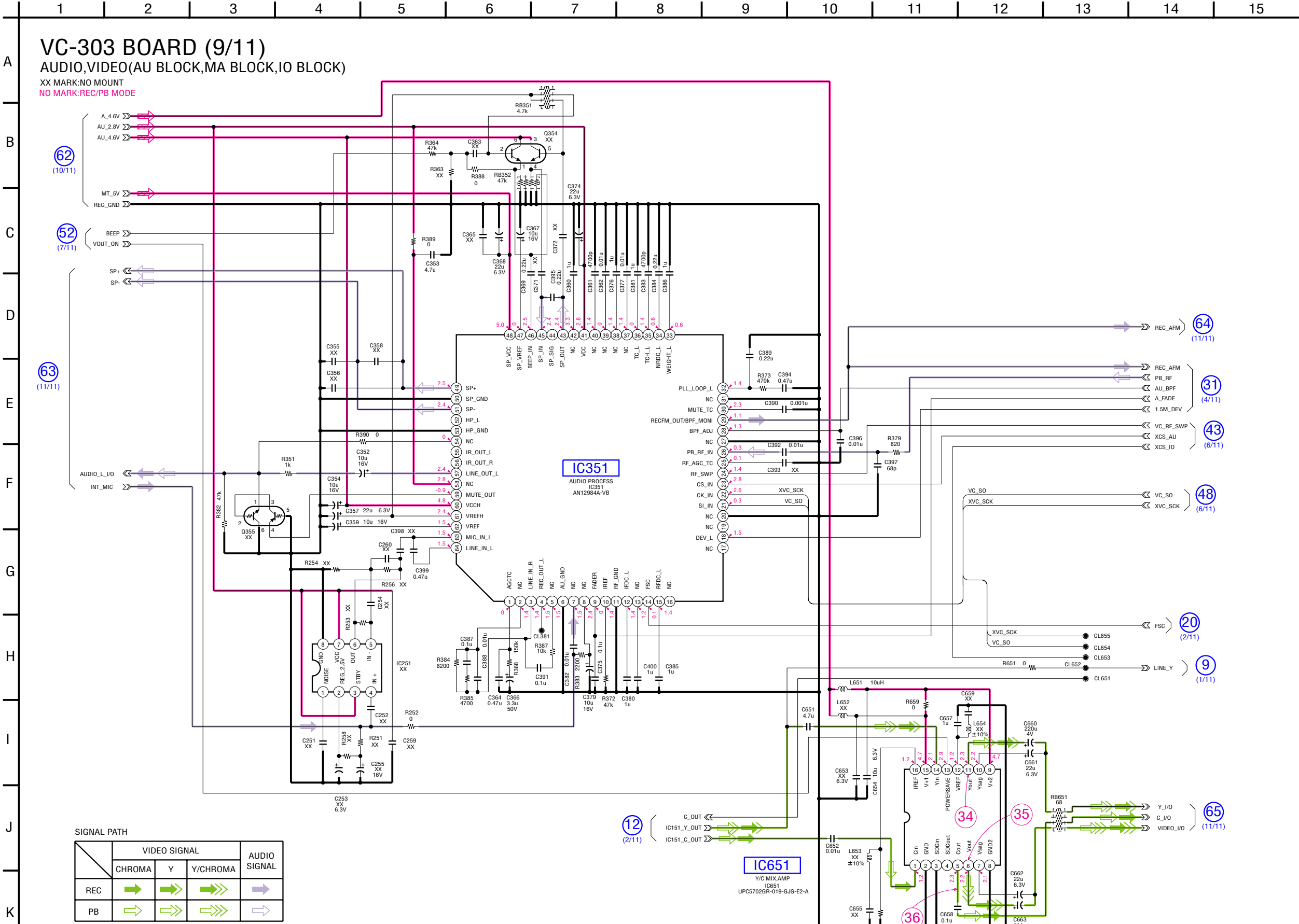
- Refer to page 4-47 for printed wiring board.
- Refer to page 4-65 for waveforms.





For Schematic Diagram

- Refer to page 4-47 for printed wiring board.
- Refer to page 4-65 for waveforms.





4-2. SCHEMATIC DIAGRAMS

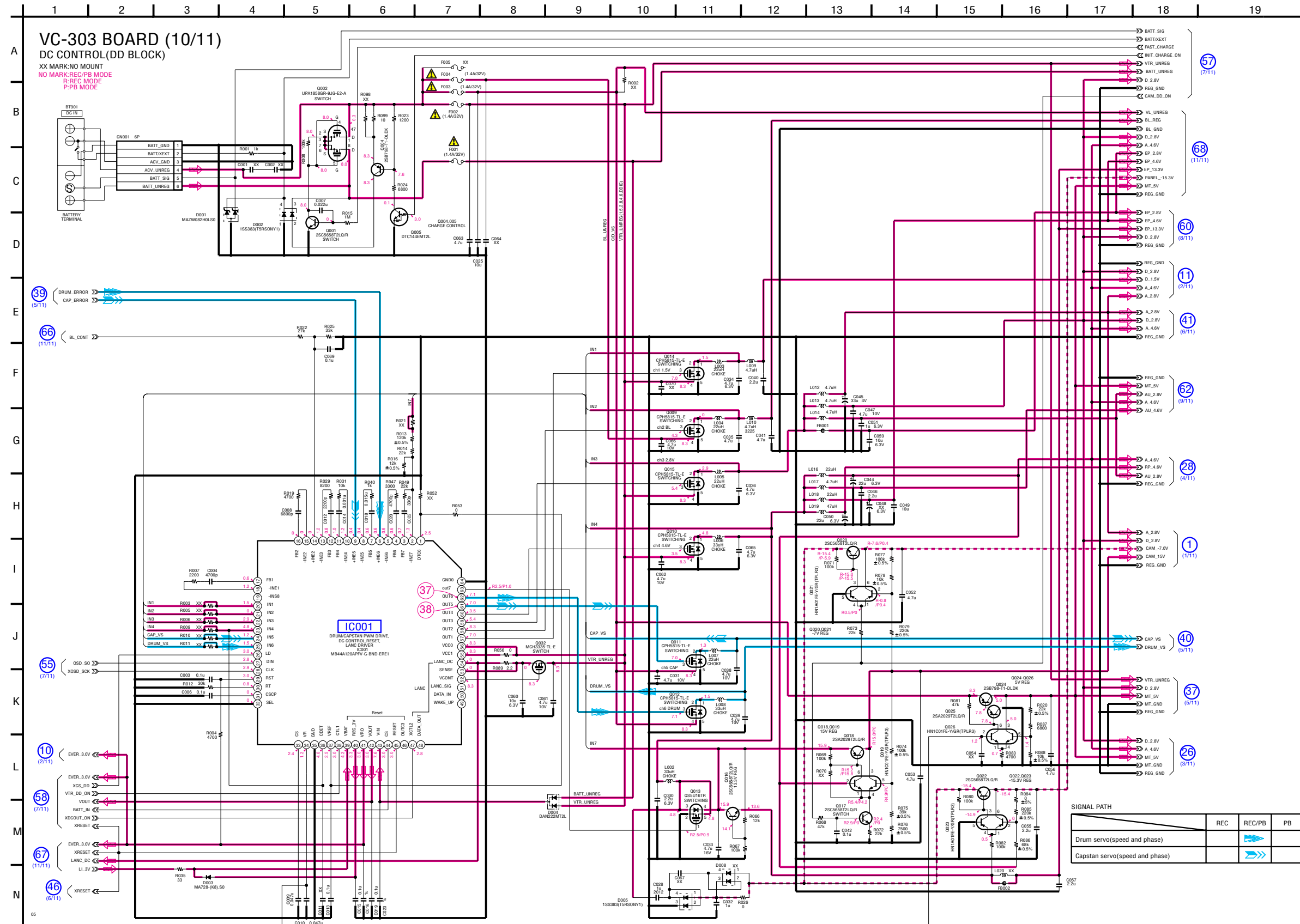
VC-303 BOARD SIDE A

VC-303 BOARD SIDE B

CCD-TRV118/TRV218E/TRV318/TRV418/TRV418E

For Schematic Diagram

- Refer to page 4-47 for printed wiring board.
- Refer to page 4-65 for waveforms.



The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

VC-303 BOARD SIDE B

- Refer to page 4-47 for printed wiring board.



PD-180 BOARD SIDE B

- Refer to page 4-51 for printed wiring board.
- Refer to page 4-66, 4-67 for waveforms.

PD-180 BOARD SIDE B

PD-180 BOARD (2/2)
BACKLIGHT DRIVE(BL BLOCK)

XX MARK:NO MOUNT
NO MARK:REC/PB MODE

IC5602 CURRENT DETECT

IC5601 SELECT SWITCH

IC5701 XCS

CN5601 10P

10	BL_HIGH
9	N.C.
8	N.C.
7	N.C.
6	N.C.
5	N.C.
4	N.C.
3	BL_LOW
2	LED
1	LED_GND

CN5701 20P

SE_GND	20
BL_GND	19
BL_REG	18
BL_CONT	17
PANEL_-15.3V	16
PANEL_13.3V	15
PANEL_4.6V	14
PANEL_2.8V	13
REG_GND	12
XVC_SCK	11
XCS_LCD_DA	10
V_CSO	9
PANEL_XVD	8
C-SYNC/XHD	7
PANEL_HOLD	6
PANEL_B	5
PANEL_G	4
PANEL_R	3
ADS	2
XSYS_RST	1

CN5702 6P


1	PANEL_REV
2	PANEL_REV
3	N.C.
4	N.C.
5	GND
6	GND

CN5703 XX

COM1	1 COM1
COM2	2 COM2
SEG3	3 SEG3
SEG4	4 SEG4
SEG5	5 SEG5
SEG6	6 SEG6
SEG7	7 SEG7
SEG8	8 SEG8
SEG9	9 SEG9
SEG10	10 SEG10
SEG11	11 SEG11
SEG12	12 SEG12
SEG13	13 SEG13
SEG14	14 SEG14
SEG15	15 SEG15
SEG16	16 SEG16
COM3	17 COM3
COM4	18 COM4
COM5	19 COM5
COM6	20 COM6

SIGNAL PATH

	VIDEO SIGNAL
	CHROMA
REC	→
PB	→

Les composants identifiés par une marque  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.



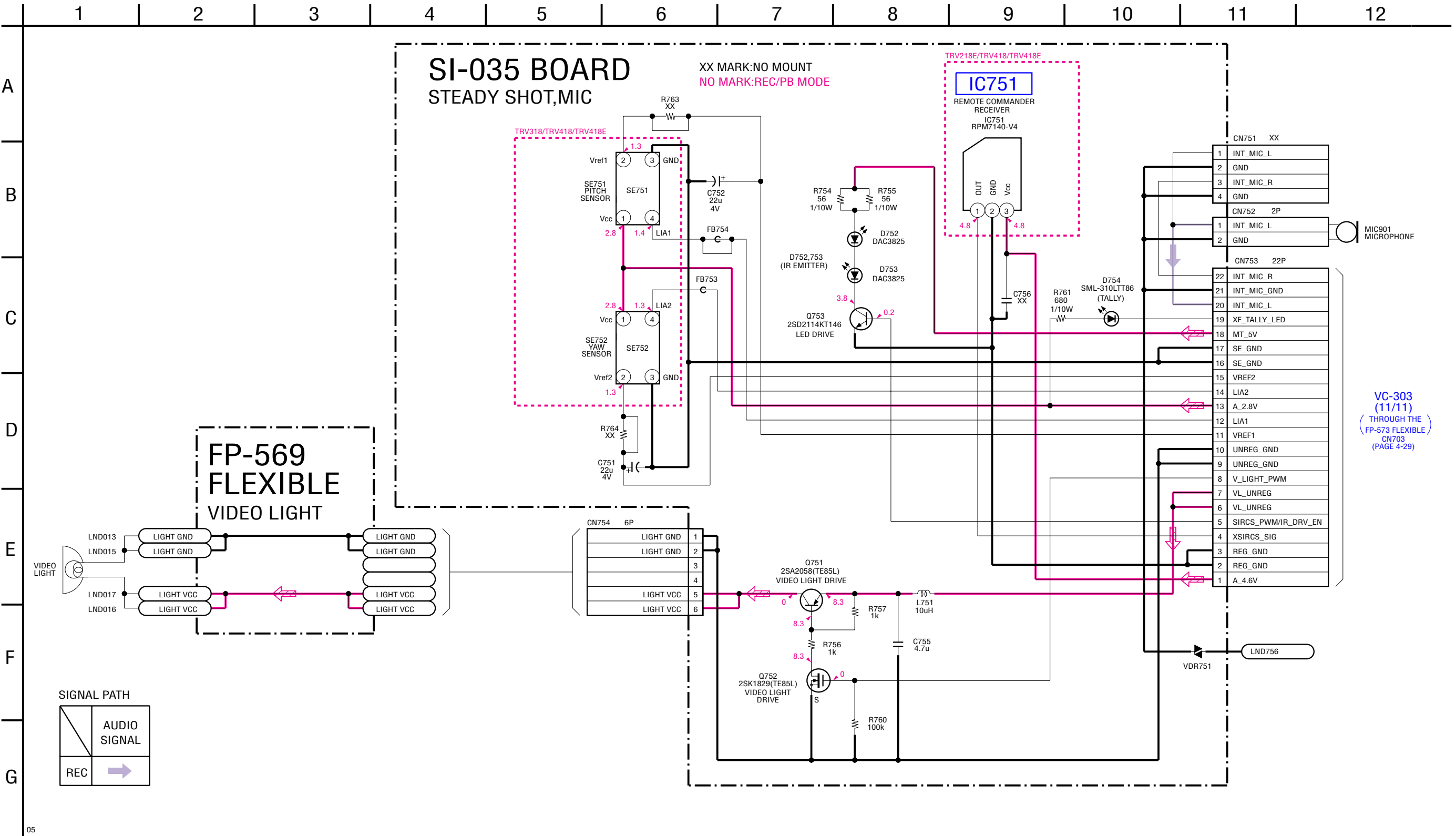
4-2. SCHEMATIC DIAGRAMS

SI-035 BOARD

FP-569 FLEXIBLE BOARD

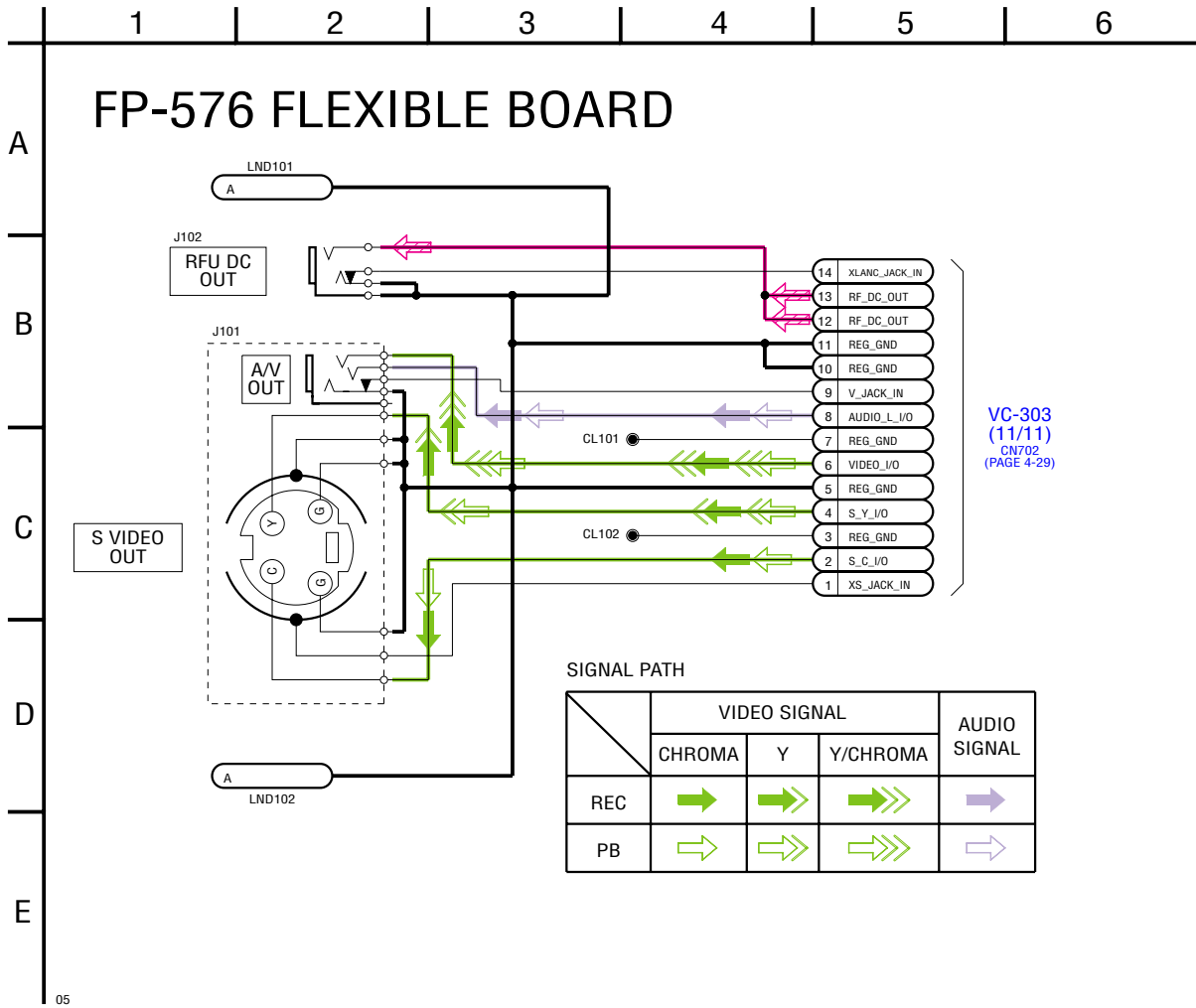
For Schematic Diagram

• Refer to page 4-55, 4-57 for printed wiring board.

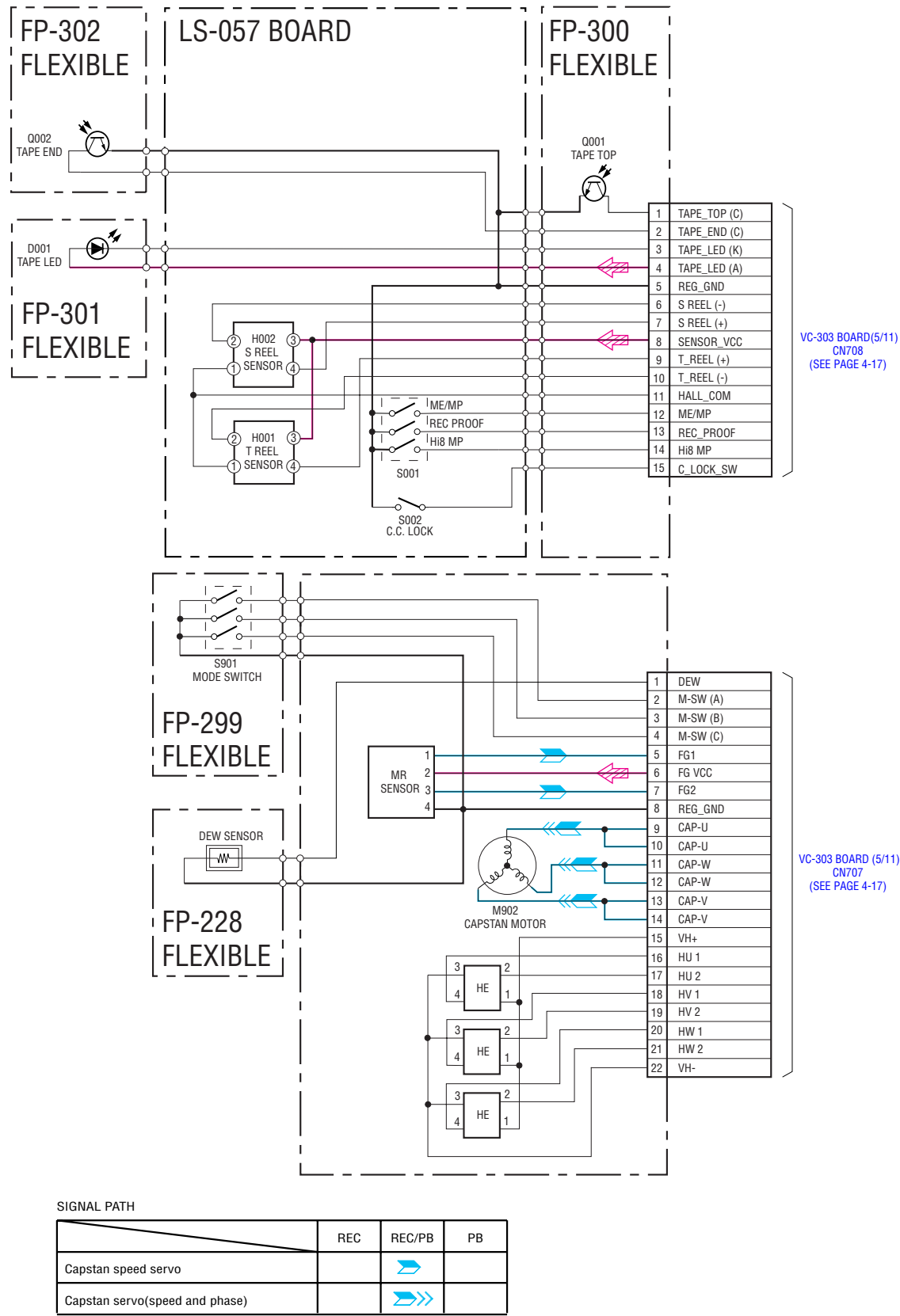




For Schematic Diagram
• Refer to page 4-57 for printed wiring board.

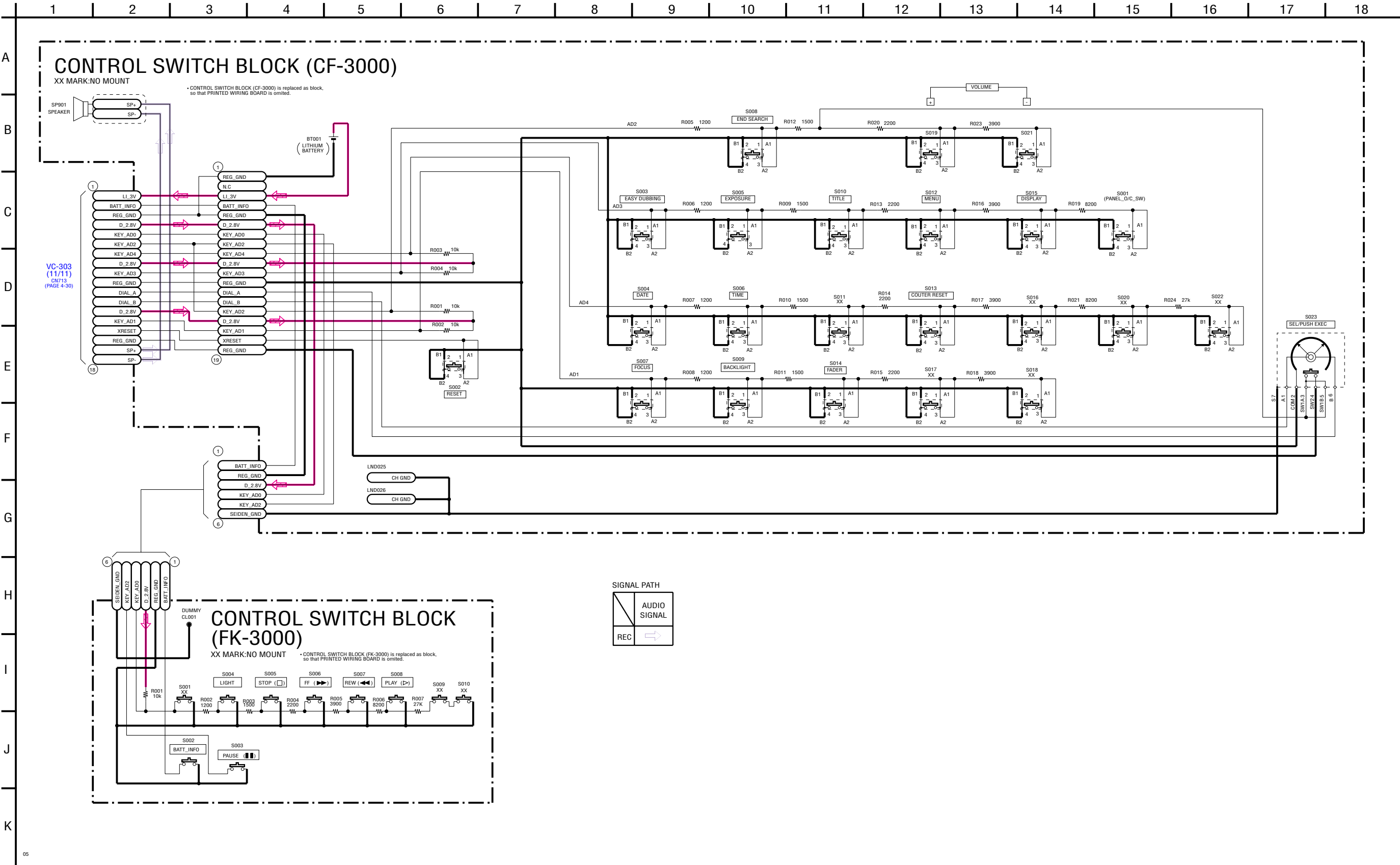


For Schematic Diagram
• Refer to page 4-58 for printed wiring board.



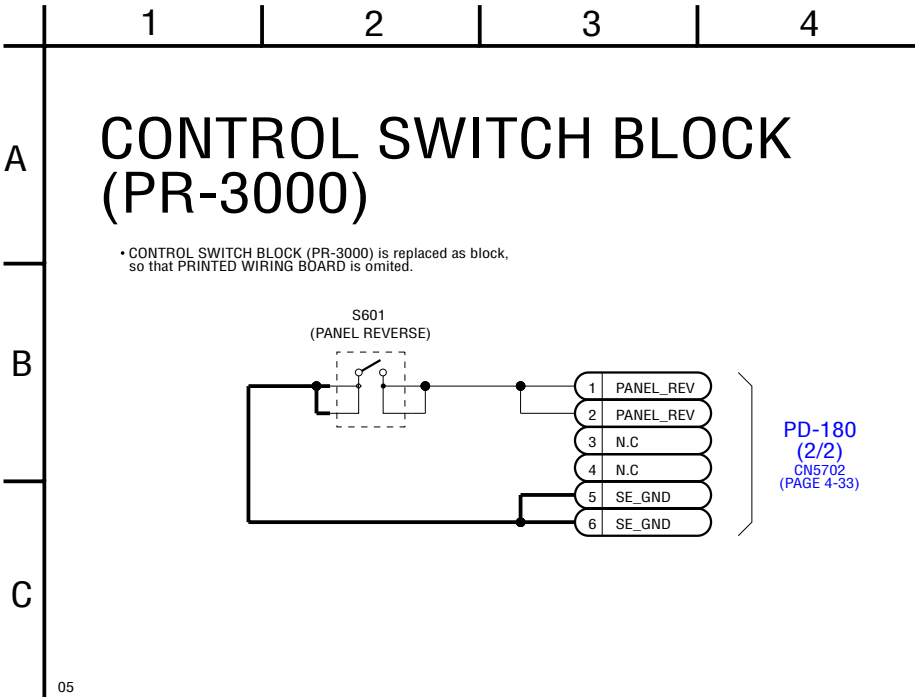
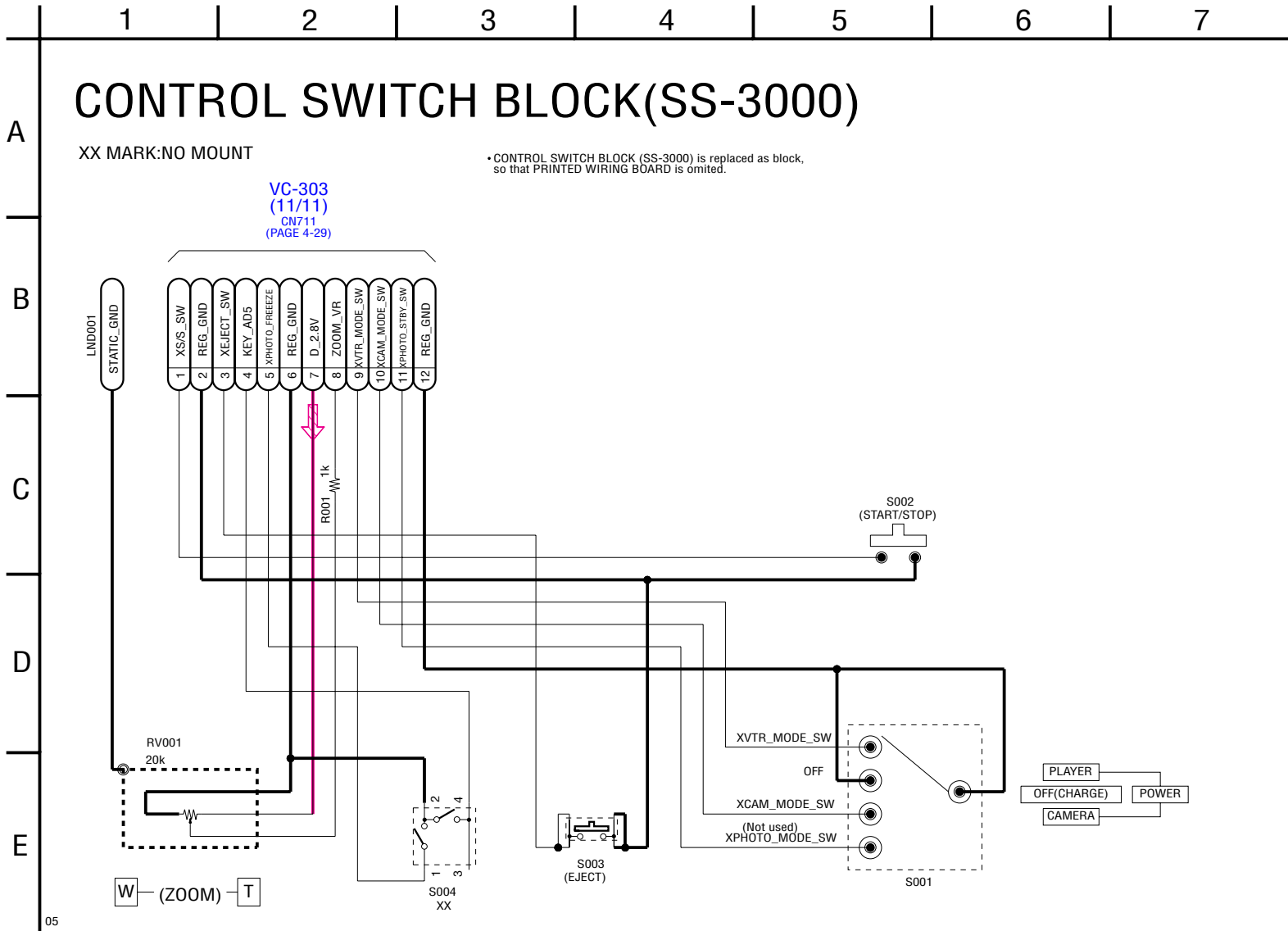


4-2. SCHEMATIC DIAGRAMS





4-2. SCHEMATIC DIAGRAMS





4-3. PRINTED WIRING BOARDS

4-3. PRINTED WIRING BOARDS

THIS NOTE IS COMMON FOR PRINTED WIRING BOARDS

- : Uses unleaded solder.
- : Circuit board
- : Flexible board
- Pattern from the side which enables seeing.
- : pattern of the rear side
(The other layers' patterns are not indicated)
- Through hole is omitted.
- Circled numbers refer to waveforms.
- There are a few cases that the part printed on diagram isn't mounted in this model.
- : panel designation

- Chip parts.

Transistor

Diode

Board Name	Parts Location	Waveforms	Pattern	
			Total Number of Layers	Layers Not Indicated
CD-409	—	4-61	4 layers	2, 3 layers
VC-303	4-68	4-62	4 layers	2, 3 layers
PD-180	4-69	4-66	2 layers	—
SI-035	4-69	—	2 layers	—



4-3. PRINTED WIRING BOARDS

Link

• CD-409 BOARD	• PD-180 BOARD (SIDE B)
• VC-303 BOARD (SIDE A)	• SI-035 BOARD
• VC-303 BOARD (SIDE B)	• LS-057 BOARD, FP-228, FP-299, FP-300, FP-301, FP-302, FP-569, FP-576 FLEXIBLE BOARD
• PD-180 BOARD (SIDE A)	

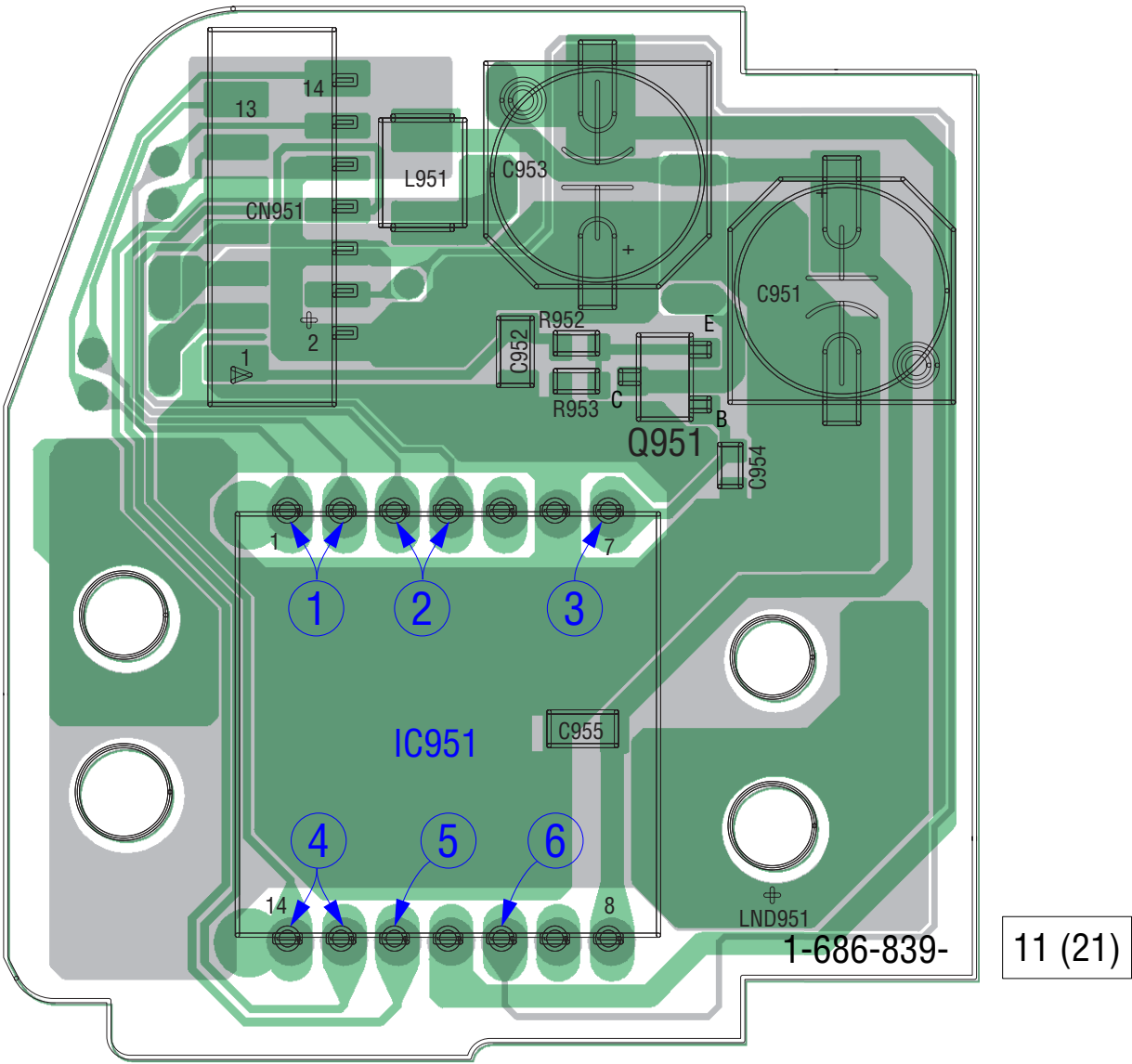
• COMMON NOTE FOR PRINTED WIRING BOARDS		• WAVEFORMS
• MOUNTED PARTS LOCATION	• CIRCUIT BOARDS LOCATION	• FLEXIBLE BOARDS LOCATION



CD-409 (CCD IMAGER)

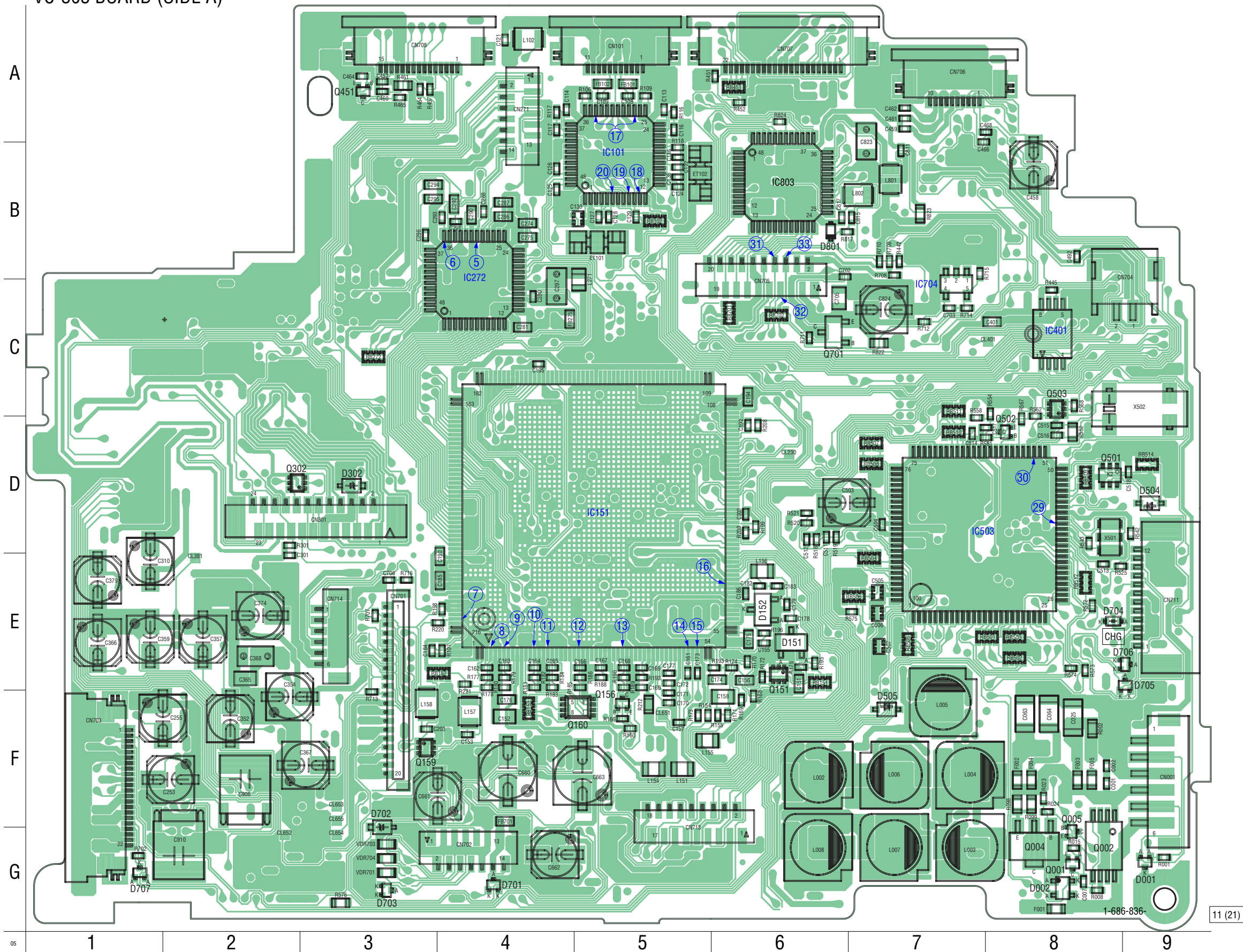
Note for Printed Wiring Board (See page 4-43).

CD-409 BOARD



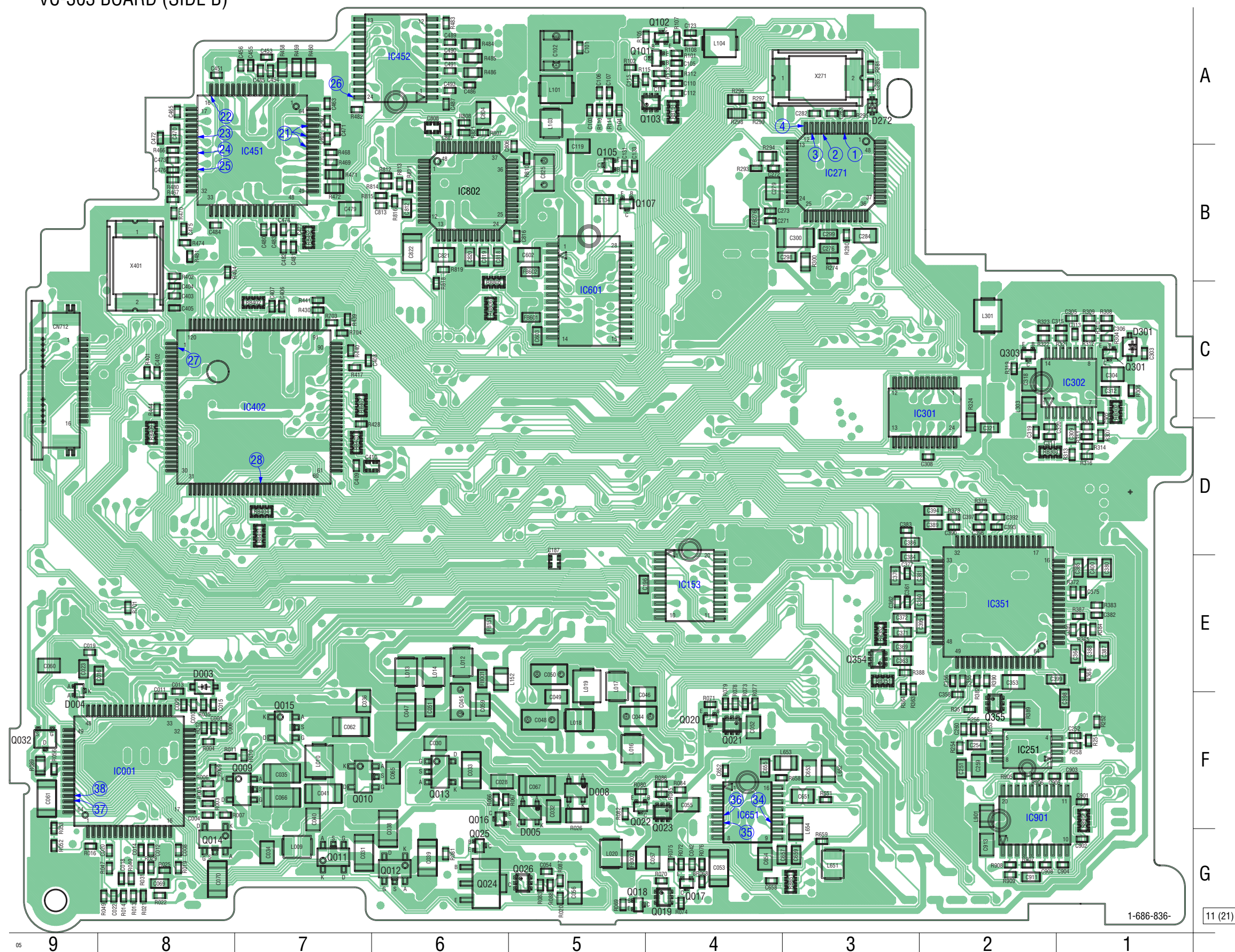
Note for Printed Wiring Board (See page 4-43).

VC-303 BOARD (SIDE A)



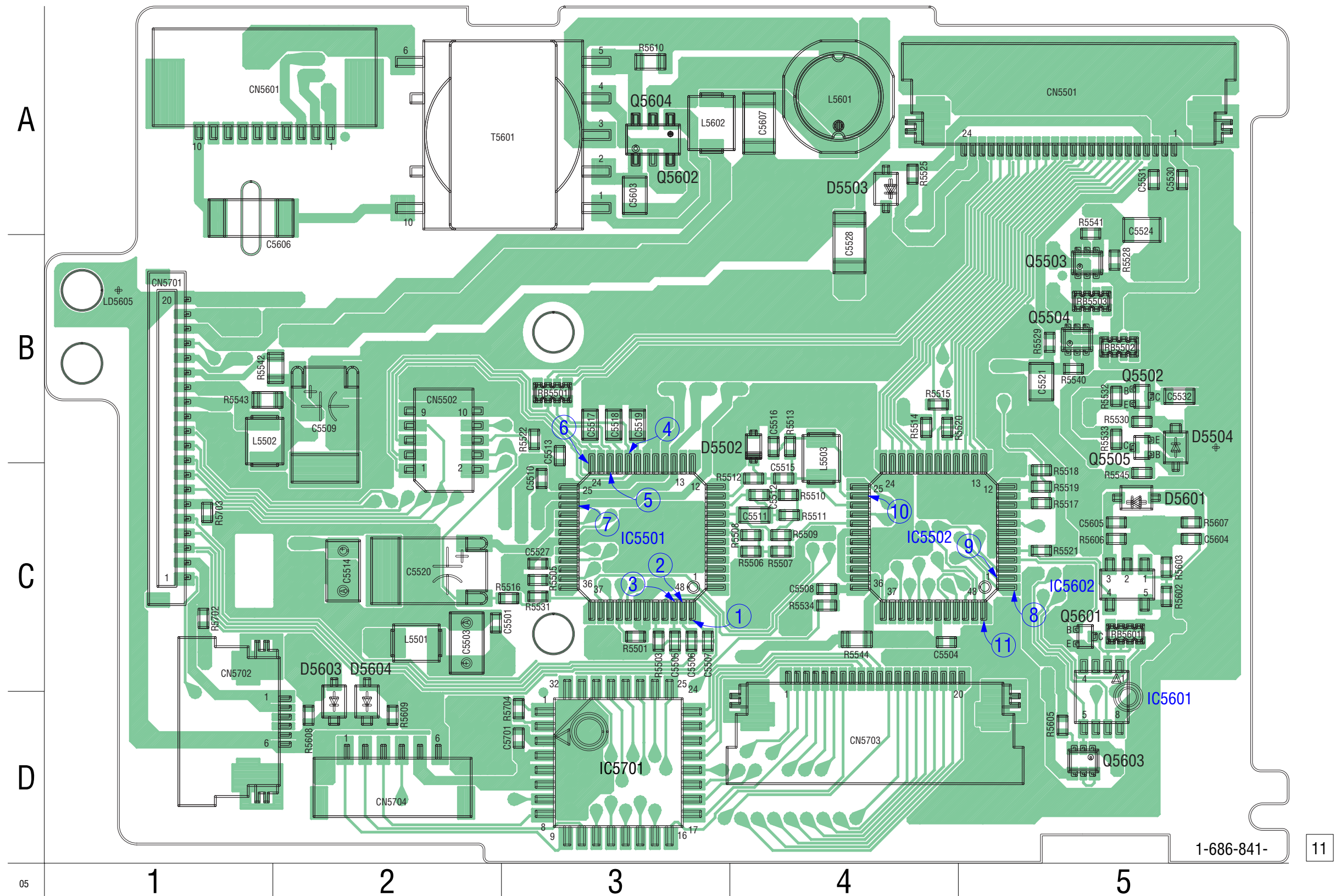


VC-303 BOARD (SIDE B)

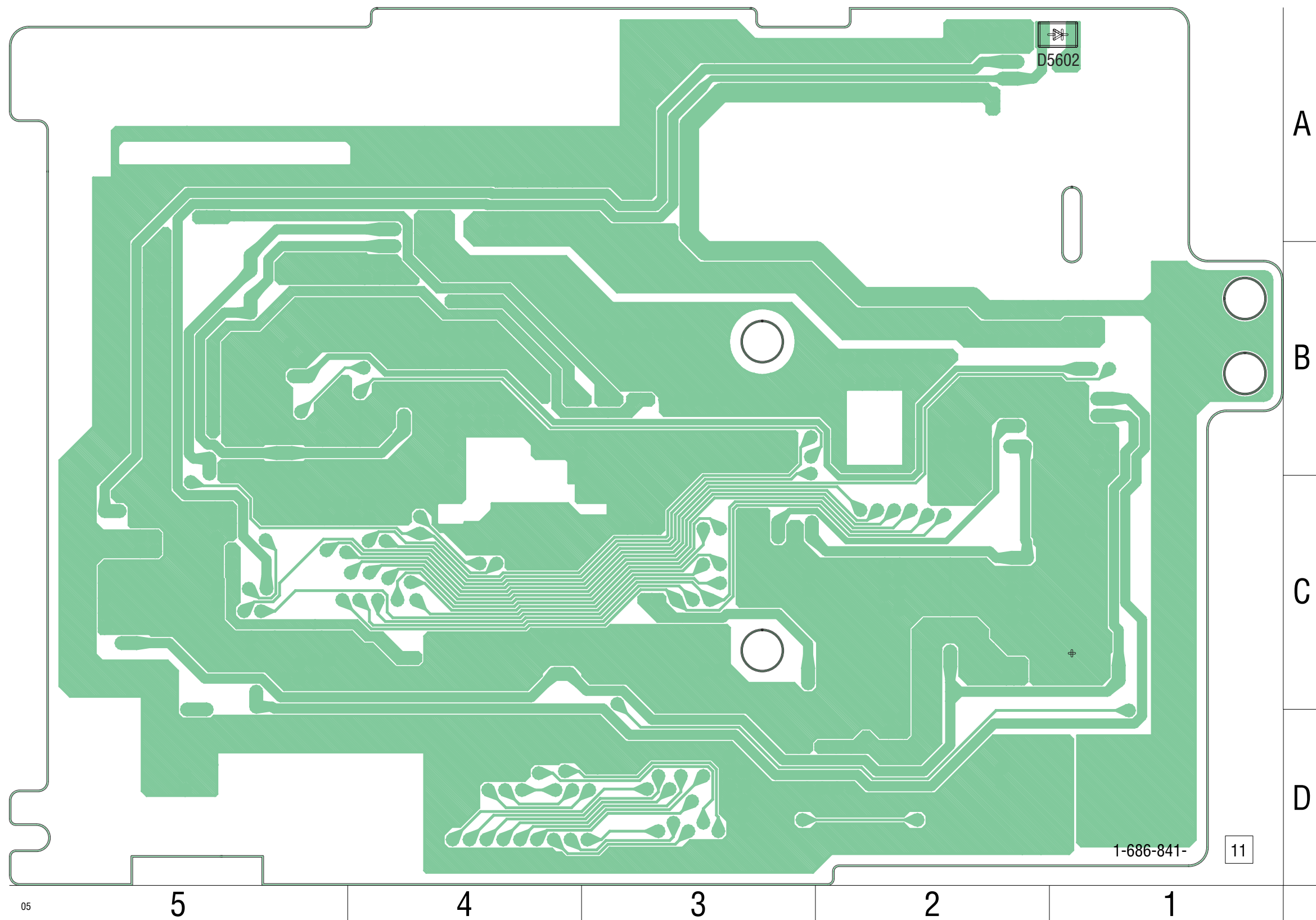


Note for Printed Wiring Board (See page 4-43).

PD-180 BOARD (SIDE A)



PD-180 BOARD (SIDE B)

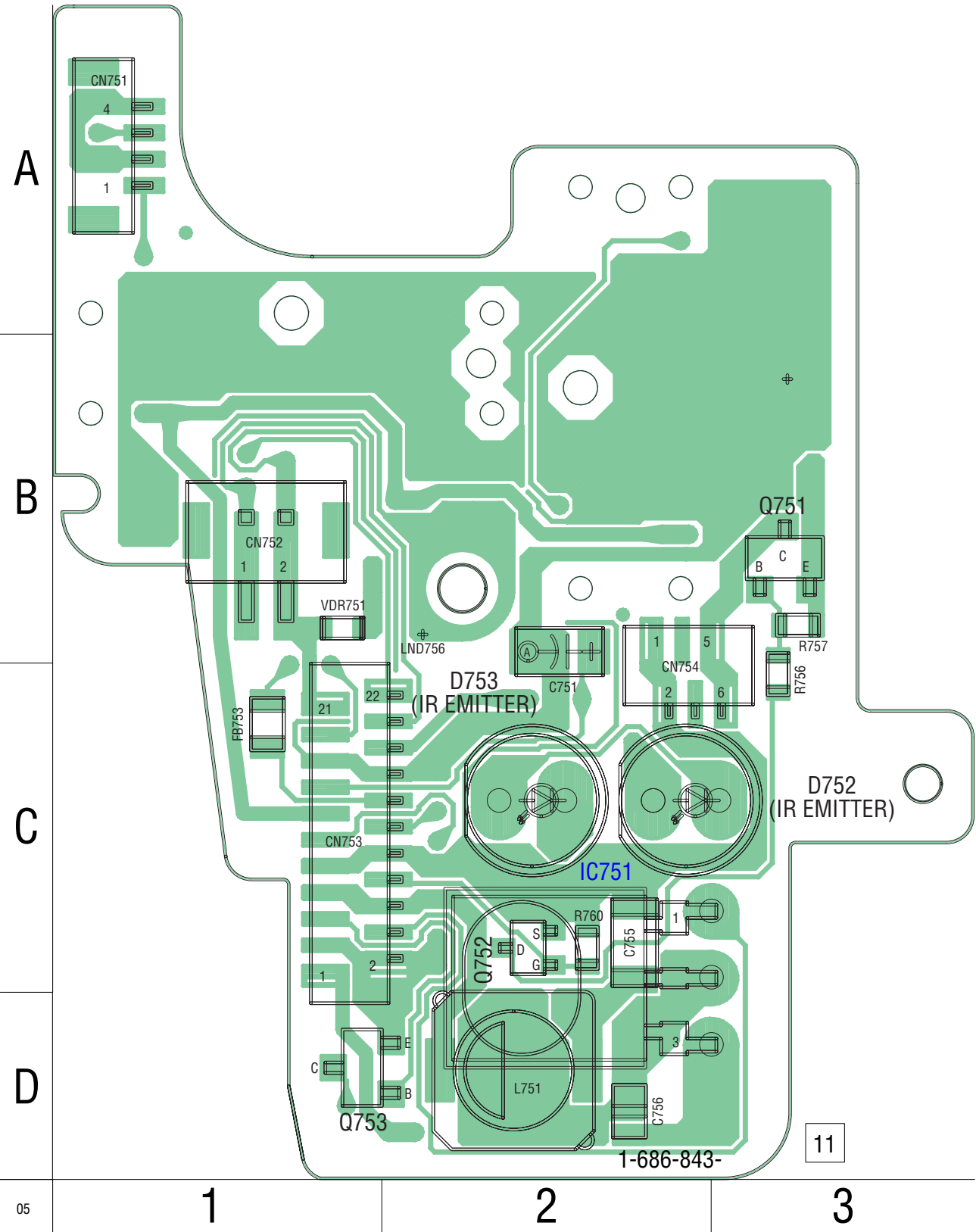




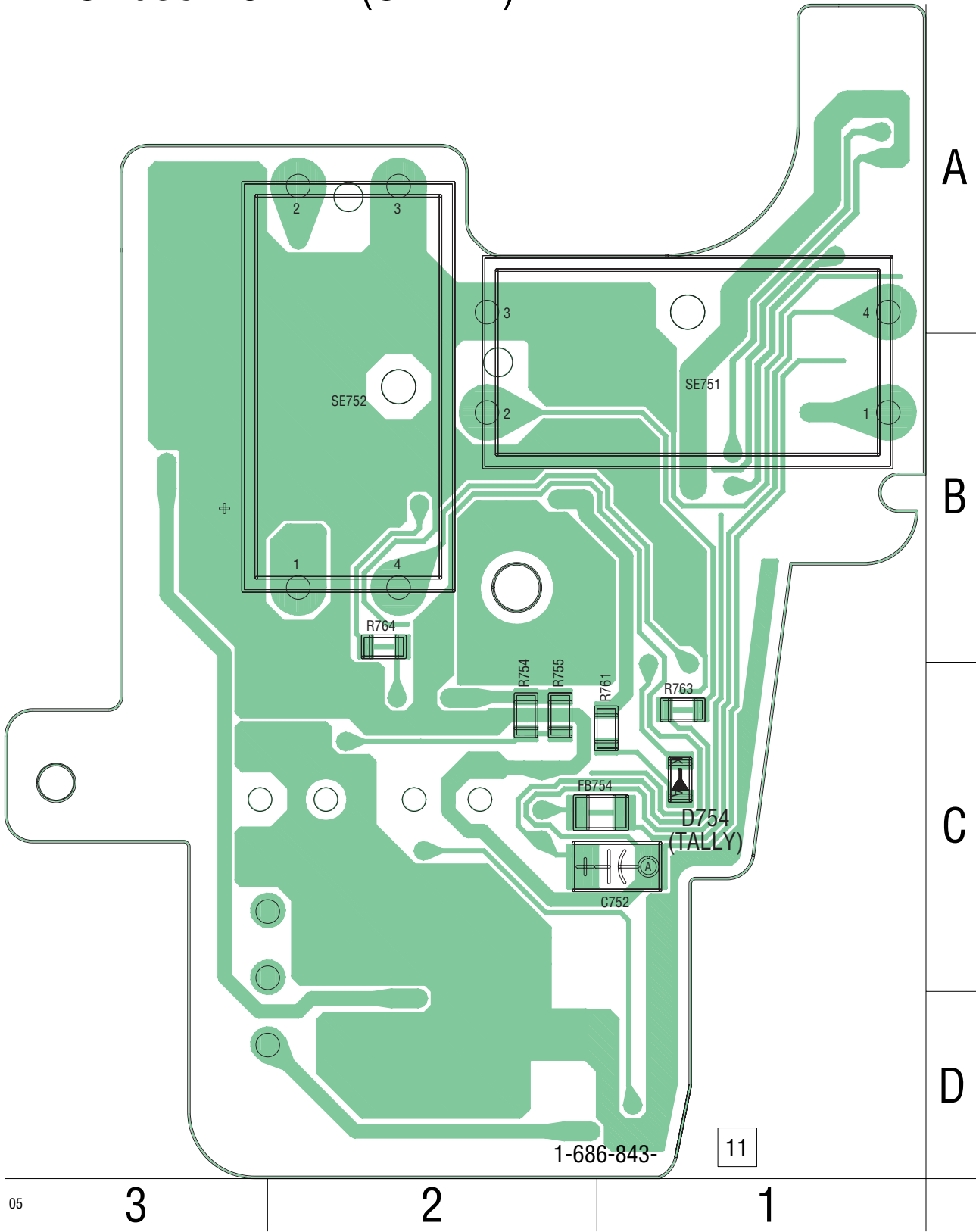
SI-035 (STEADYSHOT, MIC)

Note for Printed Wiring Board (See page 4-43).

SI-035 BOARD (SIDE A)



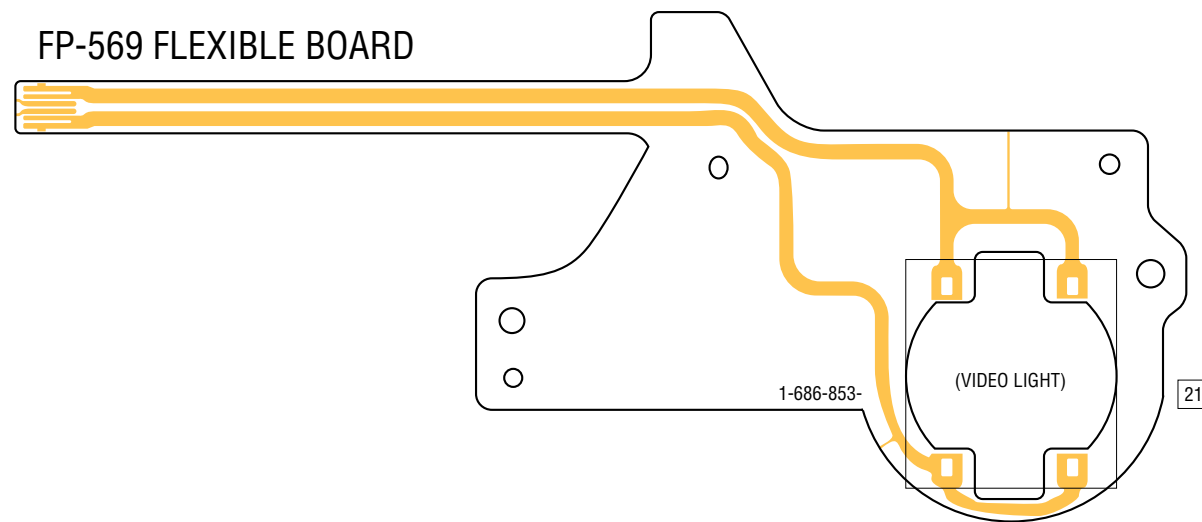
SI-035 BOARD (SIDE B)



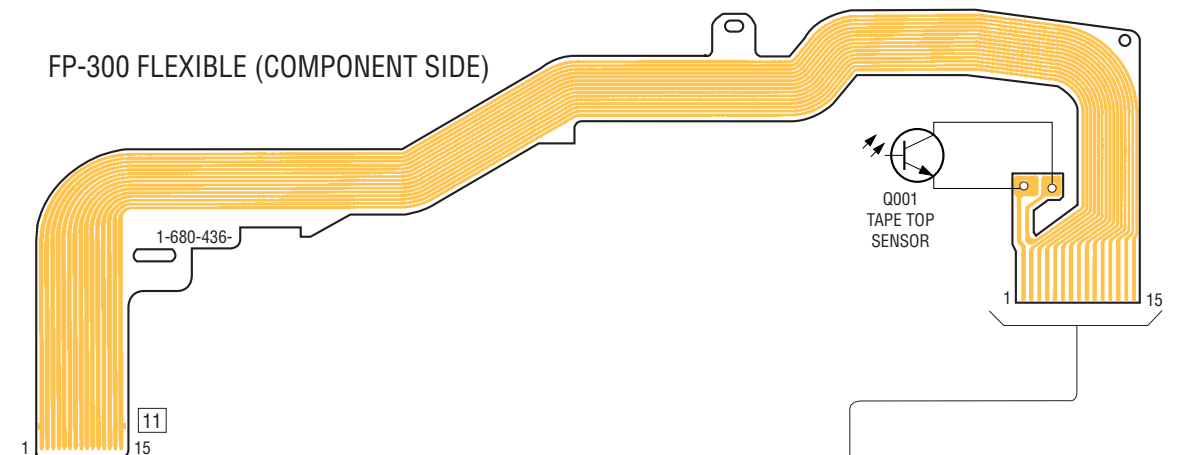
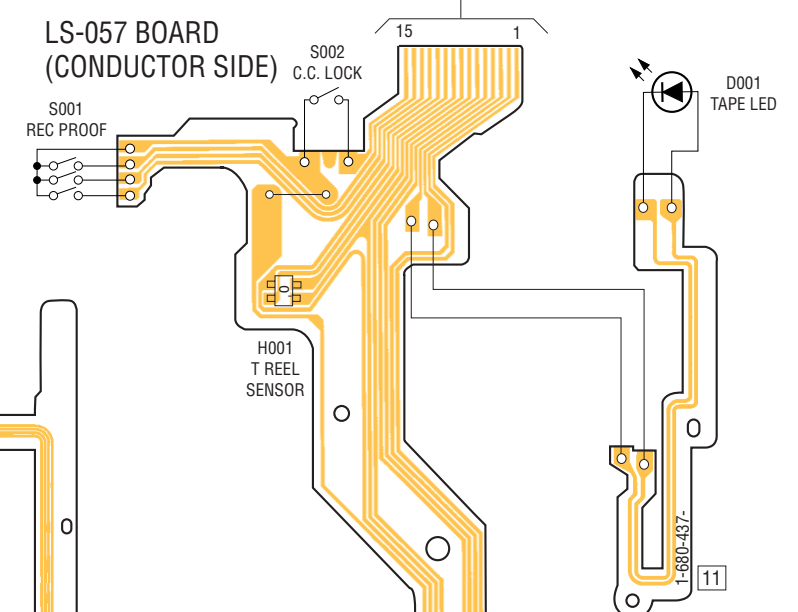
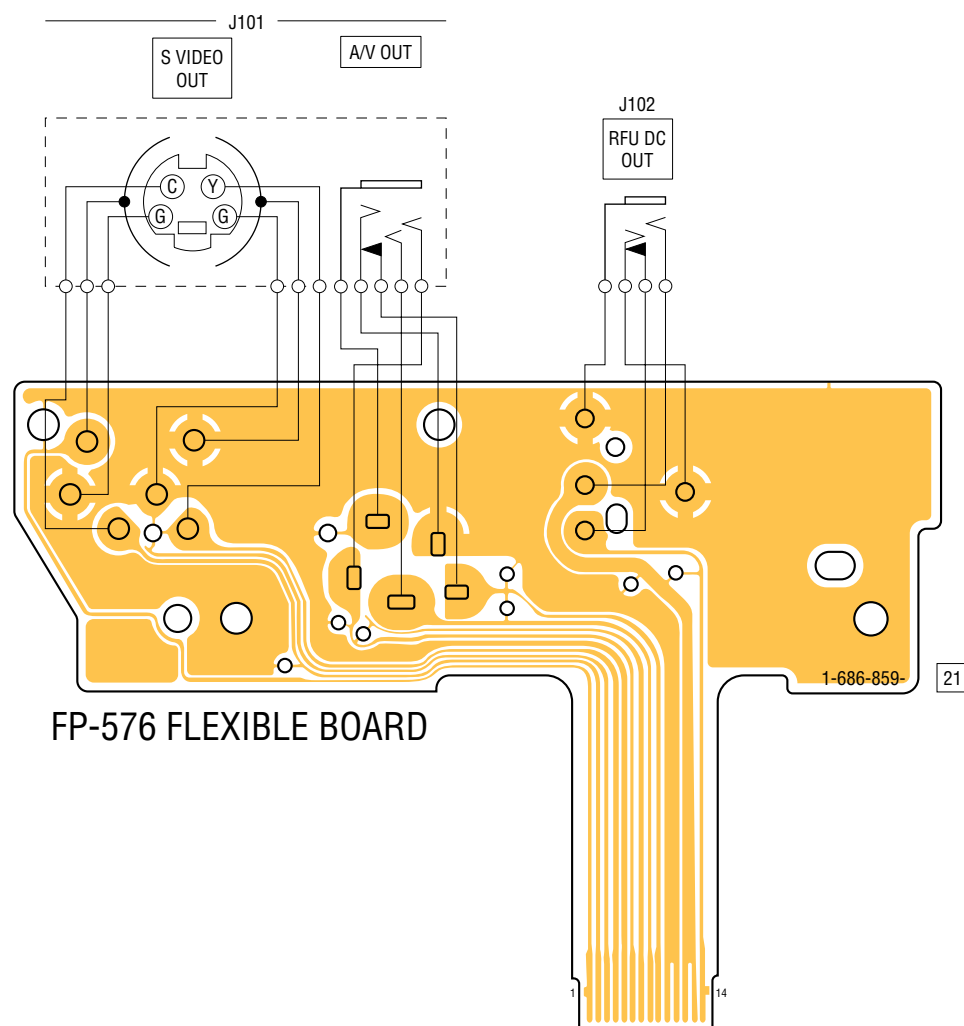


LS-057 (S/T REEL SENSOR), FP-228, FP-299, FP-300, FP-301, FP-302, FP-569, FP-576 FLEXIBLE

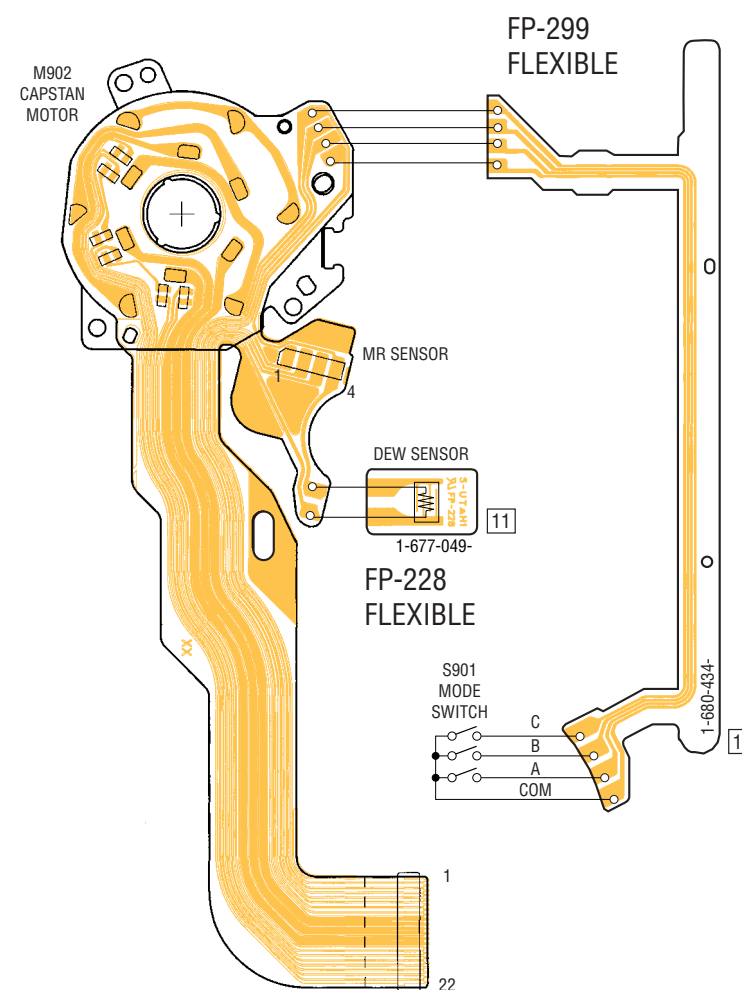
FP-569 FLEXIBLE BOARD



FP-300 FLEXIBLE (COMPONENT SIDE)

LS-057 BOARD
(CONDUCTOR SIDE)FP-301 FLEXIBLE
(CONDUCTOR SIDE)FP-302 FLEXIBLE
(CONDUCTOR SIDE)

FP-576 FLEXIBLE BOARD

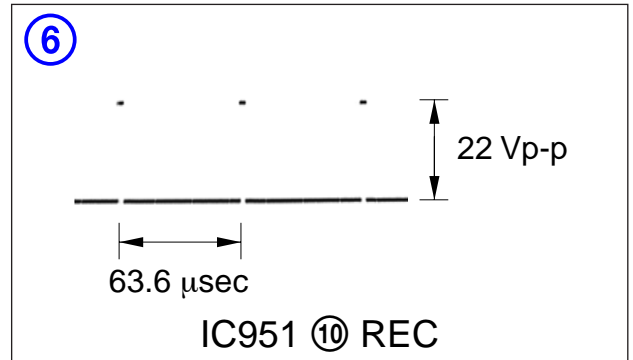
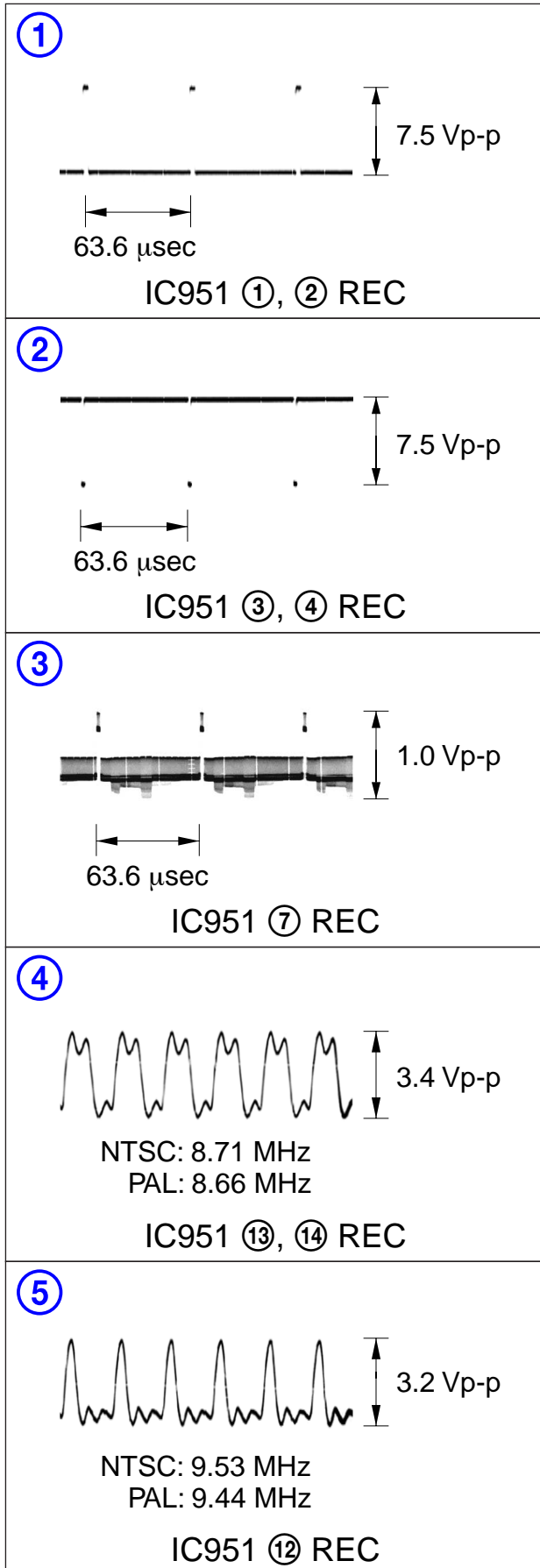
FP-228
FLEXIBLEFP-299
FLEXIBLE



CD-409 BOARD

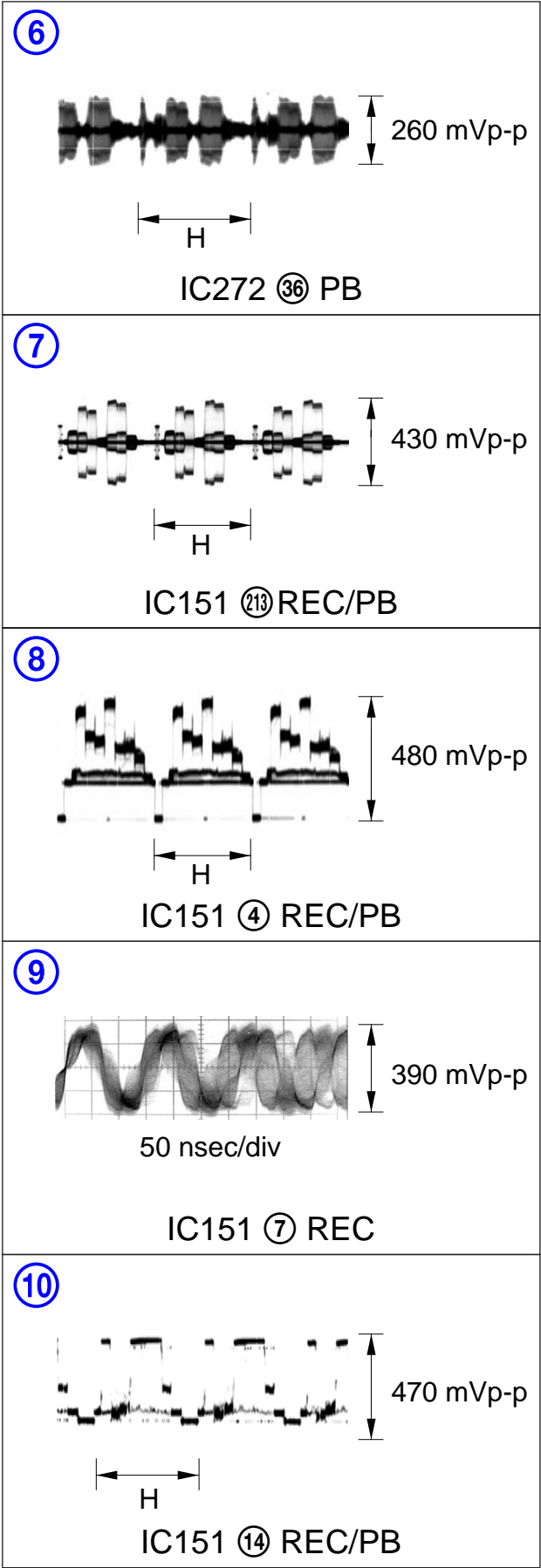
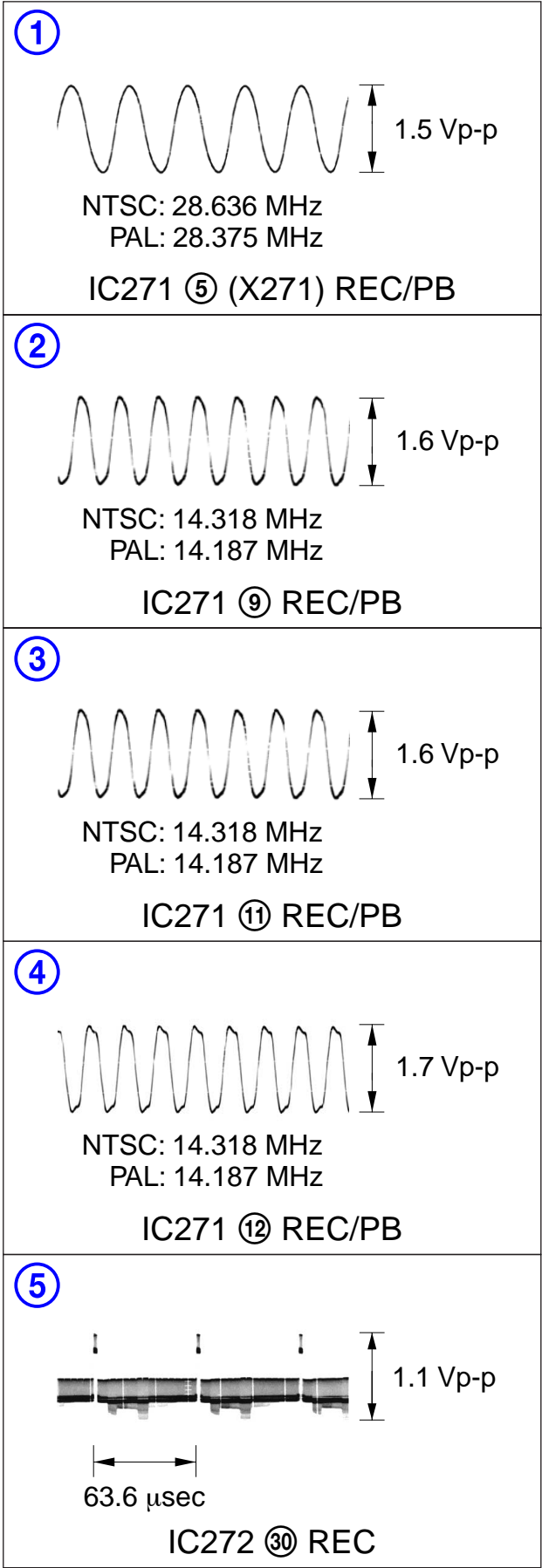
4-4. WAVEFORMS

CD-409 BOARD





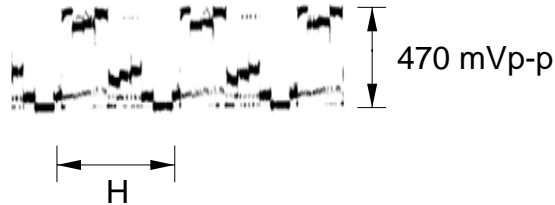
VC-303 BOARD (1/4)





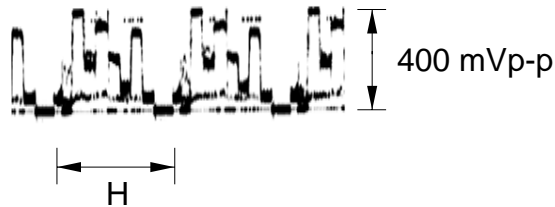
VC-303 BOARD (2/4)

⑪



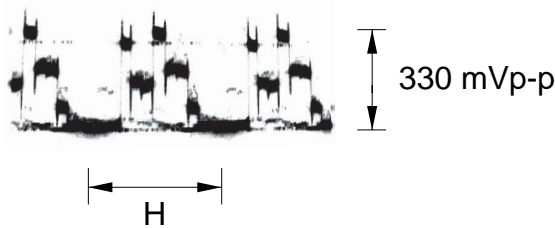
IC151 ⑰ REC/PB

⑫



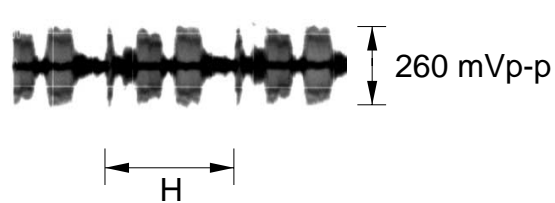
IC151 ⑳ REC/PB

⑬



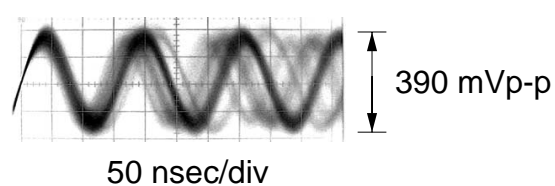
IC151 ㉓ REC/PB

⑭



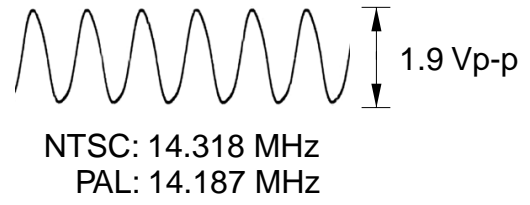
IC151 ㉙ PB

⑮



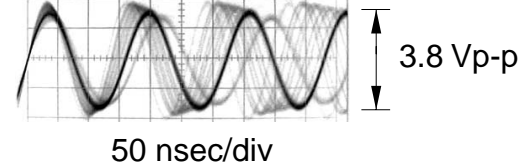
IC151 ㉚ PB

⑯



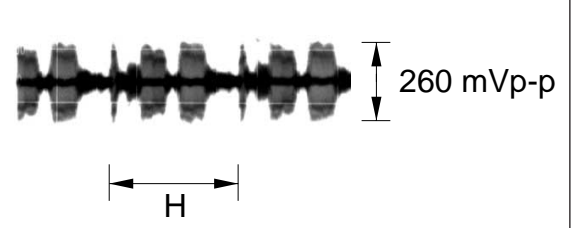
IC151 ㉞ PB

⑰



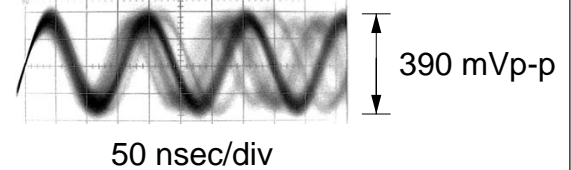
IC101 ㉔, ㉚ REC

⑱



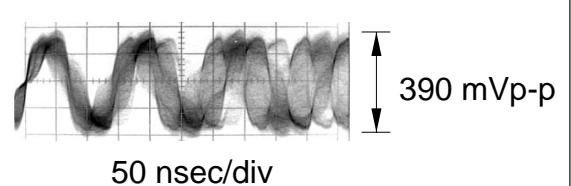
IC101 ㉑ PB

⑲



IC101 ㉑ PB

⑳



IC101 ㉒ REC



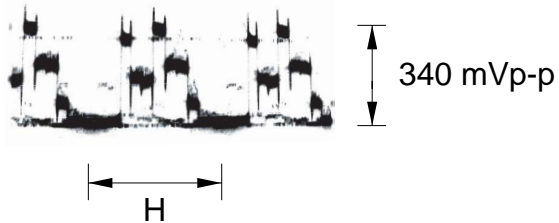
VC-303 BOARD (3/4)

<div>21</div> <p>NTSC: 180 Hz PAL: 150 Hz</p> <p>IC451 57, 59, 61 REC/PB</p>	<div>26</div> <p>NTSC: 820 Hz PAL: 1148 Hz</p> <p>IC452 24 REC/PB</p>
<div>22</div> <p>NTSC: 180 Hz PAL: 150 Hz</p> <p>IC451 16 REC/PB</p>	<div>27</div> <p>20 MHz</p> <p>IC402 2 (X401) REC/PB</p>
<div>23</div> <p>NTSC: 30 Hz PAL: 25 Hz</p> <p>IC451 22 REC/PB</p>	<div>28</div> <p>NTSC: 30 Hz PAL: 25 Hz</p> <p>IC402 47 REC/PB</p>
<div>24</div> <p>13 μsec</p> <p>IC451 25 REC/PB</p>	<div>29</div> <p>20 MHz</p> <p>IC503 40 (X501) REC/PB</p>
<div>25</div> <p>13 μsec</p> <p>IC451 28 REC/PB</p>	<div>30</div> <p>32.768 kHz</p> <p>IC503 53 (X502) REC/PB</p>



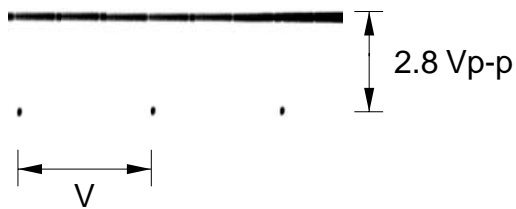
VC-303 BOARD (4/4)

③①



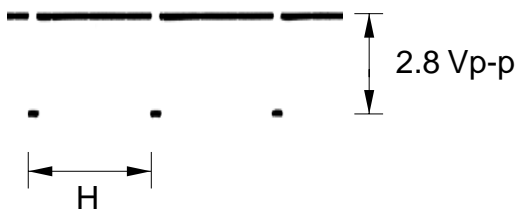
CN705 ⑧ REC/PB

③②



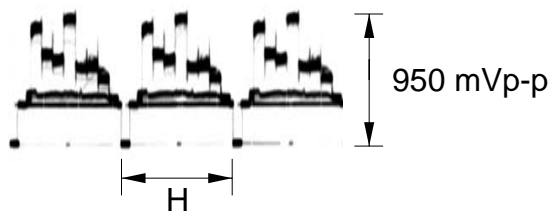
CN705 ⑦ REC/PB

③③



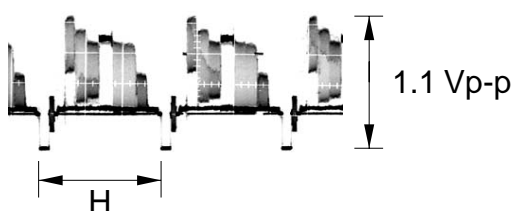
CN705 ⑥ REC/PB

③④



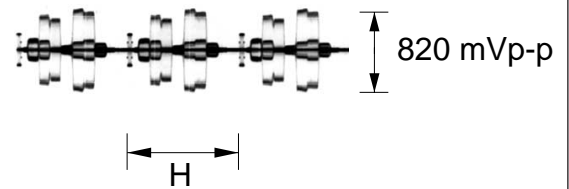
IC651 ⑪ REC/PB

③⑤



IC651 ⑥ REC/PB

③⑥



IC651 ⑤ REC/PB

③⑦



NTSC: 500 kHz
PAL: 485 kHz

IC001 ⑥② REC/PB

③⑧

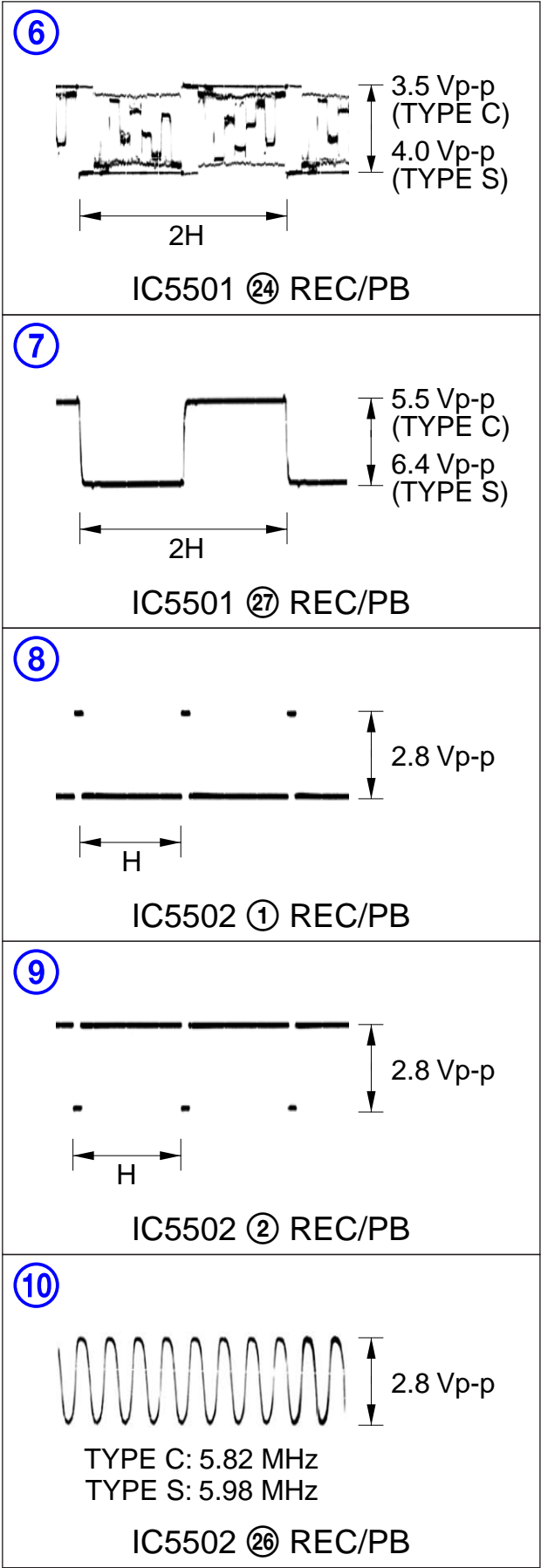
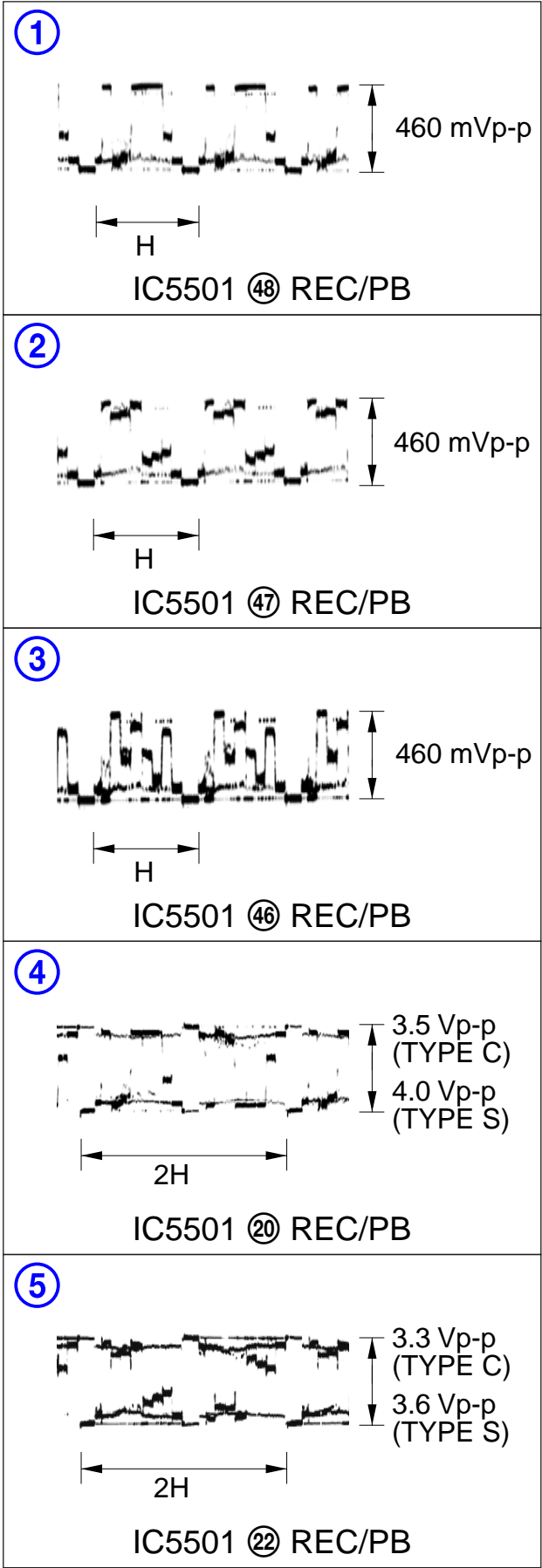


NTSC: 500 kHz
PAL: 485 kHz

IC001 ⑥① REC/PB

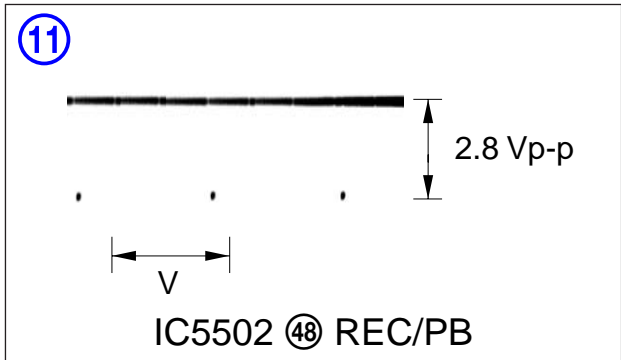


PD-180 BOARD (1/2)





PD-180 BOARD (2/2)





4-3. PRINTED WIRING BOARDS

4-5. MOUNTED PARTS LOCATION

no mark : side A

* mark : side B

VC-303 BOARD

* C003	F-8	C162	E-4	* C385	E-1	C663	F-5	R023	F-8
* C004	F-8	C163	E-4	* C386	D-3	C702	B-6	R024	F-8
* C006	F-8	C164	E-4	* C387	E-1	C703	C-7	* R025	G-8
C007	G-8	C165	E-4	* C388	E-1	C705	C-6	* R026	F-5
* C008	G-8	C166	E-5	* C389	D-2	* C901	F-1	* R029	G-8
* C009	F-8	C168	E-5	* C390	D-2	* C902	G-1	* R031	G-8
* C010	F-8	C170	F-5	* C391	E-1	* C903	F-1	* R035	F-8
* C012	G-8	C171	F-5	* C392	D-2	* C904	G-1	* R040	G-8
* C013	E-8	C172	E-5	* C394	D-2	* C905	F-2	* R047	G-8
* C014	G-8	C173	E-5	* C395	E-2	C906	F-2	* R049	G-8
* C015	F-8	C174	E-6	* C396	D-2	* C908	G-2	* R053	F-9
* C016	E-8	C175	E-6	* C397	D-2	C910	G-2	* R056	F-9
* C018	G-8	C176	F-4	* C399	E-2	* C911	G-2	* R066	F-6
* C019	E-9	C177	E-5	* C400	E-1	* C913	G-2	* R067	F-6
* C020	G-8	C178	E-6	C401	C-8			* R068	G-4
* C022	G-8	C182	E-6	* C402	C-8	CN001	F-9	* R069	G-5
* C023	E-9	C184	E-3	* C403	C-8	CN101	A-5	* R071	F-4
C025	F-8	C185	E-4	* C404	C-8	CN271	A-4	* R072	G-4
* C028	F-6	C186	E-6	* C405	C-8	CN301	D-3	* R073	F-4
* C030	F-6	* C187	E-5	* C406	C-7	CN701	E-3	* R074	G-4
* C031	F-7	C190	E-4	* C407	C-7	CN702	G-4	* R075	G-4
* C032	F-5	C192	C-6	* C408	C-7	CN703	F-1	* R076	G-4
* C033	F-6	C195	C-3	* C410	D-6	CN704	B-9	* R077	F-4
* C034	G-7	C202	D-6	* C451	A-8	CN705	C-6	* R078	F-4
* C035	F-7	* C272	B-4	* C453	A-7	CN706	A-7	* R079	F-4
* C036	F-7	* C276	B-3	* C454	A-7	CN707	A-6	* R080	F-5
* C038	G-6	* C279	B-4	* C455	A-7	CN708	A-3	* R081	G-6
* C039	G-6	C280	C-3	* C456	A-7	CN711	E-9	* R082	F-5
* C040	F-7	C281	C-3	C458	B-8	* CN712	C-9	* R083	G-5
* C041	F-7	* C282	A-3	C459	A-7	CN713	F-5	* R084	F-4
* C042	G-4	* C283	A-3	C460	A-3			* R085	F-4
* C044	F-5	* C284	B-3	C461	A-7	D001	G-9	* R086	F-4
* C045	F-6	* C285	A-3	C462	A-7	D002	G-8	* R087	G-5
* C046	F-5	C286	B-4	* C463	A-7	* D003	E-8	* R088	G-5
* C047	F-6	C287	B-4	* C465	A-8	* D004	E-9	* R089	F-9
* C049	F-5	C288	B-4	C466	B-7	* D005	F-5	R099	F-8
* C050	E-5	C290	B-4	* C467	A-7	D151	E-6	* R101	A-4
* C051	F-6	C291	B-4	C468	A-8	D152	E-6	* R102	A-5
* C052	F-4	C292	B-4	* C469	A-7	* D272	A-3	* R105	A-4
* C053	G-4	C293	B-4	* C470	A-8	* D301	C-1	R106	A-5
* C055	F-4	C294	B-3	* C471	A-7	D504	D-9	* R107	A-4
* C056	G-5	C295	B-3	* C472	A-8	D505	F-7	* R108	A-4
* C057	G-4	C296	B-3	* C473	B-8	D702	G-3	R109	A-5
* C059	F-6	C297	C-3	* C475	B-8	D703	G-3	* R110	A-5
* C060	E-9	* C300	B-3	* C476	B-8	D704	E-8	* R111	A-5
* C061	F-9	C301	E-2	* C477	B-7	D707	G-1	* R112	A-4
* C062	F-7	* C302	C-1	* C478	B-7			* R113	A-4
C063	F-8	* C303	C-1	* C479	B-7	ET101	B-5	* R115	A-4
* C065	F-6	* C304	C-1	* C480	B-7	ET102	B-5	R116	A-5
* C066	F-7	* C305	C-1	* C481	B-7			R117	A-4
* C069	G-8	* C306	C-1	* C482	B-7	F001	G-8	R118	B-5
* C101	A-5	* C307	D-1	* C483	B-7	F002	F-8	R154	F-5
* C102	A-5	* C308	D-2	* C484	B-8	F003	F-8	R155	F-6
* C103	A-5	* C309	D-1	* C485	A-7	F004	F-8	* Q026	G-5
* C104	A-5	C310	E-1	* C486	A-6			* Q032	F-9
* C106	A-5	* C311	D-2	* C487	A-6	* FB001	E-6	* Q101	A-4
* C107	A-5	* C312	C-1	* C489	A-6	* FB002	G-5	* Q102	A-4
C108	A-5	* C313	C-1	* C490	A-6	FB101	A-5	* Q103	A-4
C109	A-5	* C315	C-1	* C491	A-6	FB102	A-5	* Q105	B-5
* C110	A-4	* C318	C-2	C492	B-8	* FB151	E-6	* Q107	B-5
* C111	A-4	* C319	D-2	* C493	A-6	FB275	C-3	Q151	E-6
* C112	A-4	C352	F-2	C503	D-6	* FB276	B-4	Q159	F-3
C113	A-5	* C353	E-2	C504	D-7	* FB601	C-5	Q160	F-5
C114	A-4	C354	F-2	C505	E-7	* FB602	B-5	* Q301	C-1
* C115	A-5	C357	E-2	C506	E-7	FB701	F-4	Q302	D-2
C116	A-5	C359	E-1	C507	E-7			* Q303	C-2
C117	A-4	* C360	E-2	C511	D-6	* IC001	F-8	Q451	A-3
* C119	B-5	* C361	E-3	C512	D-6	IC101	B-5	Q501	D-8
C121	A-4	* C362	E-3	C513	E-8	IC151	D-5	Q502	D-8
C125	B-4	* C364	E-1	C514	D-7	* IC153	E-4	Q503	C-8
C126	B-4	C366	E-1	C515	D-8	* IC271	B-3	Q701	C-6
C127	B-5	C367	F-3	C516	D-8	IC272	C-4		
C128	B-5	C368	E-2	C517	D-8	* IC301	C-2	R001	G-9
C129	B-5	* C369	E-3	C518	D-9	* IC302	C-1	* R004	F-8
C130	B-5	C374	E-2	* C602	B-5	* IC351	E-2	* R007	F-8
* C134	B-5	* C375	E-1	* C603	C-5	IC401	C-8	R008	G-9
C151	E-6	* C376	E-3	* C651	F-3	* IC402	C-7	* R012	F-8
C152	F-4	* C377	E-3	* C652	F-4	* IC451	B-7	* R013	G-8
C155	E-6	C379	E-1	* C654	G-4	* IC452	A-6	* R014	G-8
C156	E-6	* C380	E-1	* C657	G-4	IC503	D-7	R015	G-8
C157	F-5	* C381	E-2	* C658	G-4	* IC601	C-5	* R016	G-9
C158	F-6	* C382	E-1	C660	F-4	* IC651	F-4	* R019	G-8
C160	E-5	* C383	D-3	C661	F-3	IC704	C-7	* R020	G-5
C161	E-5	* C384	E-3	C662	G-4	* IC901	F-2	* R022	G-8



4-3. PRINTED WIRING BOARDS

no mark : side A
* mark : side B

PD-180 BOARD

SI-035 BOARD

* R252	F-1	R567	D-8	C5503	C-2	R5534	C-4	C751	B-2
* R274	B-3	R572	E-8	C5504	C-4	R5542	B-2	* C752	C-1
* R280	B-3	R573	E-8	C5505	C-3	R5544	C-4	C755	C-2
* R281	A-3	R574	E-8	C5506	C-3	R5545	C-5		
* R295	A-3	R575	E-7	C5507	C-3	R5602	C-5	CN752	B-1
* R296	A-4	R576	G-3	C5509	B-2	R5603	C-5	CN753	C-1
* R297	A-4	* R651	F-3	C5510	C-3	R5606	C-5	CN754	C-2
* R298	A-4	* R658	F-4	C5511	C-4	R5607	C-5		
* R299	A-4	* R659	G-3	C5512	C-4	R5610	A-3	D752	C-2
* R300	B-3	* R701	E-8	C5513	B-3			D753	C-2
R301	D-2	R702	G-1	C5514	C-2	RB5501	B-3	* D754	C-1
* R304	C-1	* R703	C-7	C5515	C-4	RB5502	B-5		
* R306	C-1	* R704	C-7	C5516	B-4	RB5503	B-5	FB753	C-1
* R307	D-1	R707	E-3	C5517	B-3	RB5601	C-5		
* R308	C-1	R708	B-7	C5518	B-3			IC751	C-2
* R309	C-1	R711	C-6	C5519	B-3	T5601	A-2		
* R310	C-1	R712	C-7	C5520	C-2			L751	D-2
* R311	D-1	R713	F-3	C5521	B-5				
* R312	C-1	R714	C-7	C5524	A-5			Q751	B-3
* R313	D-1	R715	B-7	C5527	C-3			Q752	C-2
* R314	D-1	R716	E-3	C5528	B-4			Q753	D-1
* R316	D-1	* R905	F-2	C5530	A-5				
* R319	C-2	* R906	F-2	C5531	A-5			* R754	C-2
* R321	C-1	* R907	G-2	C5603	A-3			* R755	C-2
* R322	C-2	* R908	G-2	C5604	C-5			R756	C-3
* R323	C-2	* R909	G-2	C5605	C-5			R757	B-3
* R351	F-2			C5606	A-1			R760	C-2
* R364	E-3	* RB101	A-4	C5607	A-4			* R761	C-1
* R368	E-1	RB102	B-5						
* R372	E-1	RB151	E-6	CN5501	A-5			* SE751	B-1
* R373	D-2	RB152	E-4	CN5502	B-2			* SE752	B-2
* R379	D-2	RB153	F-4	CN5601	A-1				
* R382	E-2	* RB302	C-1	CN5701	B-1			VDR751	B-1
* R383	E-1	* RB303	D-2	CN5702	D-1				
* R384	E-1	* RB401	D-7						
* R385	E-1	* RB402	C-7	D5502	B-4				
* R387	E-1	* RB403	D-7	D5503	A-4				
* R388	E-3	* RB404	D-7	D5601	C-5				
* R389	F-2	* RB407	C-7						
* R390	E-2	* RB409	D-8	IC5501	C-3				
* R401	C-8	RB451	A-6	IC5502	C-4				
* R402	B-8	* RB452	B-7	IC5601	D-5				
* R404	B-8	RB501	E-8	IC5602	C-5				
* R417	C-7	RB502	E-8						
* R428	D-7	RB503	E-8	L5501	C-2				
* R441	C-7	RB504	E-7	L5502	B-1				
* R444	C-8	RB505	E-7	L5503	B-4				
R445	C-8	RB506	E-7	L5601	A-4				
R451	A-6	RB507	D-7	L5602	A-3				
R452	A-6	RB508	D-7						
R457	A-3	RB509	D-8	Q5502	B-5				
* R458	A-7	RB510	D-7	Q5503	B-5				
* R459	A-7	RB511	C-7	Q5504	B-5				
* R460	A-7	RB514	D-9	Q5505	B-5				
R461	A-3	* RB651	G-3	Q5601	C-5				
R464	A-3	RB701	C-6	Q5602	A-3				
R465	A-3	RB702	C-6						
* R466	B-8	* RB901	F-1	R5501	C-3				
* R467	B-8			R5503	C-3				
* R468	B-7	VDR701	G-3	R5505	C-3				
* R469	B-7	VDR703	G-3	R5506	C-4				
* R470	B-8	VDR704	G-3	R5507	C-4				
* R471	B-7			R5508	C-4				
* R472	B-7	* X271	A-3	R5509	C-4				
* R474	B-8	* X401	B-8	R5510	C-4				
* R480	B-8	X501	D-8	R5511	C-4				
* R481	B-8	X502	C-9	R5512	C-4				
* R482	A-7			R5513	B-4				
* R483	A-6			R5514	B-4				
* R484	A-6			R5515	B-4				
* R485	A-6			R5516	C-3				
* R486	A-6			R5517	C-5				
R518	D-6			R5518	C-5				
R519	D-6			R5519	C-5				
R520	D-6			R5520	B-4				
R521	D-6			R5521	C-5				
R525	E-8			R5522	B-3				
R542	D-9			R5525	A-4				
R543	D-8			R5528	B-5				
R552	D-8			R5529	B-5				
R554	C-8			R5530	B-5				
R558	D-7			R5531	C-3				
R561	D-8			R5532	B-5				
R562	C-8			R5533	B-5				

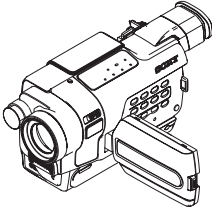
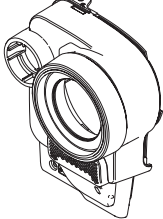
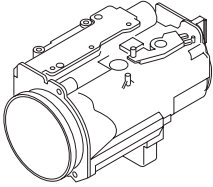
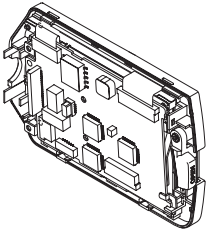
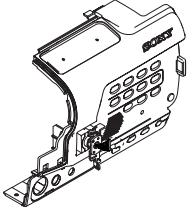
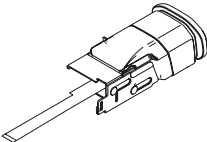
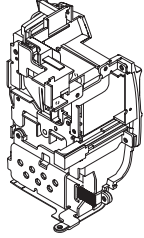
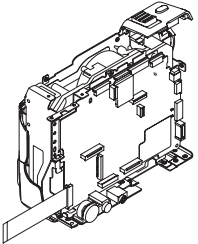
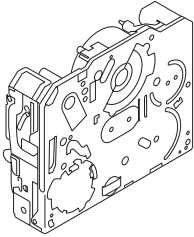
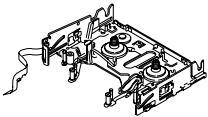
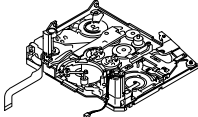
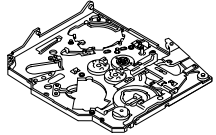


5. REPAIR PARTS LIST

NOTE: Characters **A** to **L** of the electrical parts list indicate location of exploded views in which the desired part is shown.

Link

EXPLODED VIEWS

 A	 B	 C	 D
OVERALL ASSEMBLY	F PANEL BLOCK ASSEMBLY	LENS BLOCK ASSEMBLY	LCD BLOCK ASSEMBLY
 E	 F	 G	 H
CABINET (R) BLOCK ASSEMBLY	EVF BLOCK ASSEMBLY	BATTERY PANEL BLOCK ASSEMBLY	MD FRAME BLOCK
 I	 J	 K	 L
CASSETTE COMPARTMENT ASSEMBLY, DRUM ASSEMBLY	LS CHASSIS BLOCK ASSEMBLY	MECHANICAL CHASSIS BLOCK ASSEMBLY-1	MECHANICAL CHASSIS BLOCK ASSEMBLY-2

Link

ELECTRICAL PARTS LIST

ACCESSORIES

• CD-409 BOARD C	• FP-302 FLEXIBLE BOARD J	• PD-180 BOARD (TYPE S) D
• FP-300 FLEXIBLE BOARD J	• LS-057 BOARD J	• SI-035 BOARD B
• FP-301 FLEXIBLE BOARD J	• PD-180 BOARD (TYPE C) D	• VC-303 BOARD H



5. REPAIR PARTS LIST

NOTE:

- -XX, -X mean standardized parts, so they may have some differences from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- CAPACITORS:
uF: μ F
- COILS
uH: μ H
- RESISTORS
All resistors are in ohms.
METAL: metal-film resistor
METAL OXIDE: Metal Oxide-film resistor
F: nonflammable
- SEMICONDUCTORS
In each case, u: μ , for example:
uA...: μ A..., uPA..., μ PA...,
uPB..., μ PB..., uPC..., μ PC...,
uPD..., μ PD...
- Abbreviation
AUS : Australian model
CND : Canadian model
EE : East European model
HK : Hong Kong model
KR : Korean model
NE : North European model

When indicating parts by reference number, please include the board name.

The components identified by mark \triangle or dotted line with mark \triangle are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque \triangle sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

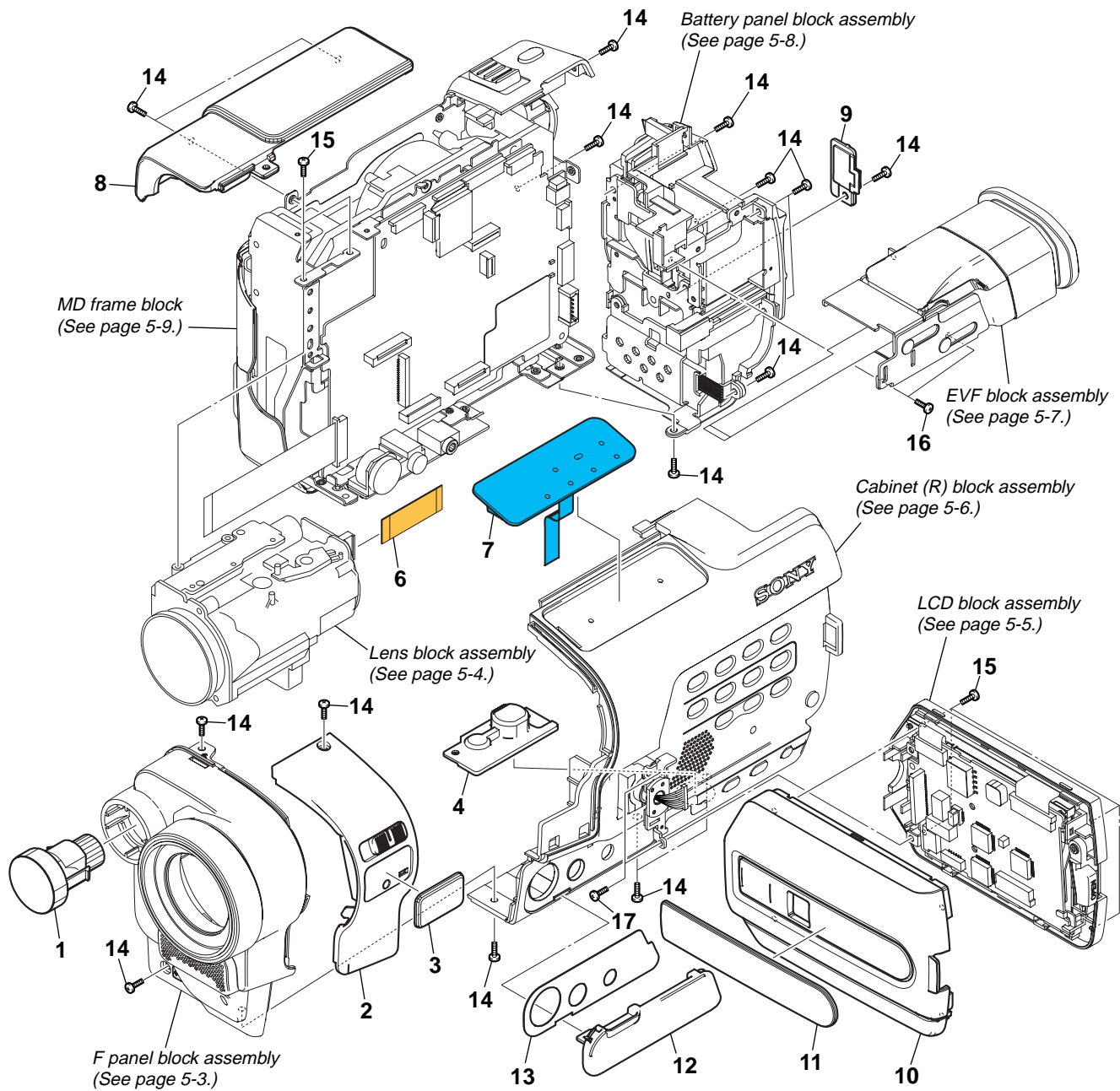
About PD-180 board and LCD module, discriminate LCD type on the machine referring to page 1-2, and replace the same type.



5. REPAIR PARTS LIST

5-1. EXPLODED VIEWS

5-1-1. OVERALL ASSEMBLY



Ref. No.	Part No.	Description
1	1-518-787-21	LIGHT, VIDEO
2	X-3952-952-1	RING (30) ASSY, ORNAMENTAL
3	3-079-010-01	PLATE (30), MAGNIFICATION
4	3-079-012-01	SCREW (30), TRIPOD
6	1-683-163-21	FP-400 FLEXIBLE BOARD
7	1-477-672-11	SWITCH BLOCK, CONTROL (FK-3000)
8	3-079-011-01	CABINET UPPER (30)
9	3-079-007-01	LID (30), CPC
10	3-079-492-02	CABINET (C) (36), P
11	X-3952-981-1	COVER (30) ASSY, CPC (TRV318)

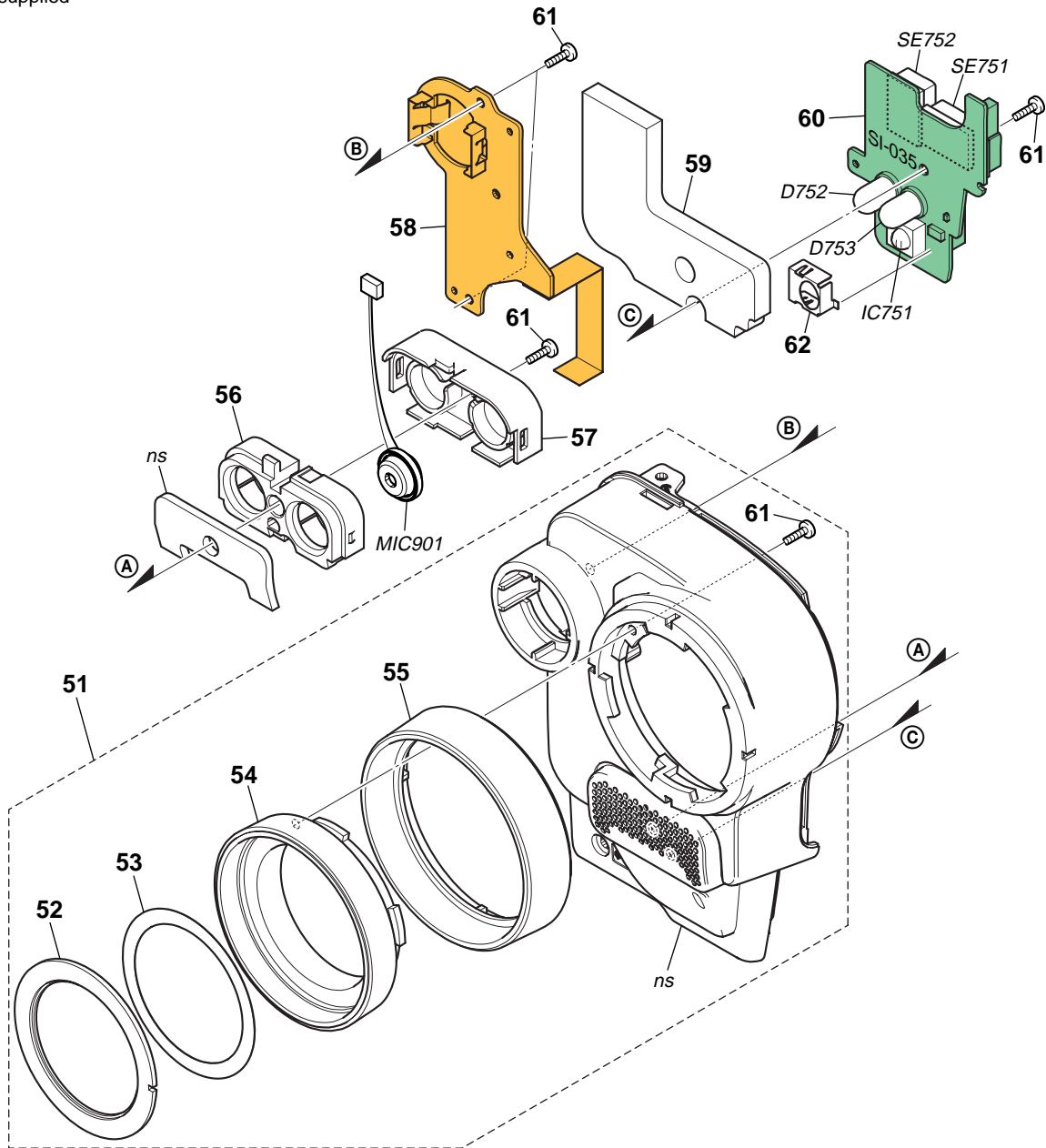
Ref. No.	Part No.	Description
11	X-3953-041-1	COVER (30) ASSY, CPC (TRV418E)
11	X-3953-042-1	COVER (30) ASSY, CPC (TRV218E)
11	X-3953-043-1	COVER (30) ASSY, CPC (TRV118)
11	X-3953-044-1	COVER (30) ASSY, CPC (TRV418)
12	3-079-008-01	COVER (30), JACK
13	3-079-396-01	SHEET (30), JACK
14	3-080-221-11	SCREW (M2), ES LOCK
15	3-065-567-11	TAPPING (M1.7)
16	3-078-889-11	SCREW (M1.7)
17	3-065-567-01	TAPPING (M1.7)



5. REPAIR PARTS LIST

5-1-2. F PANEL BLOCK ASSEMBLY

ns: not supplied

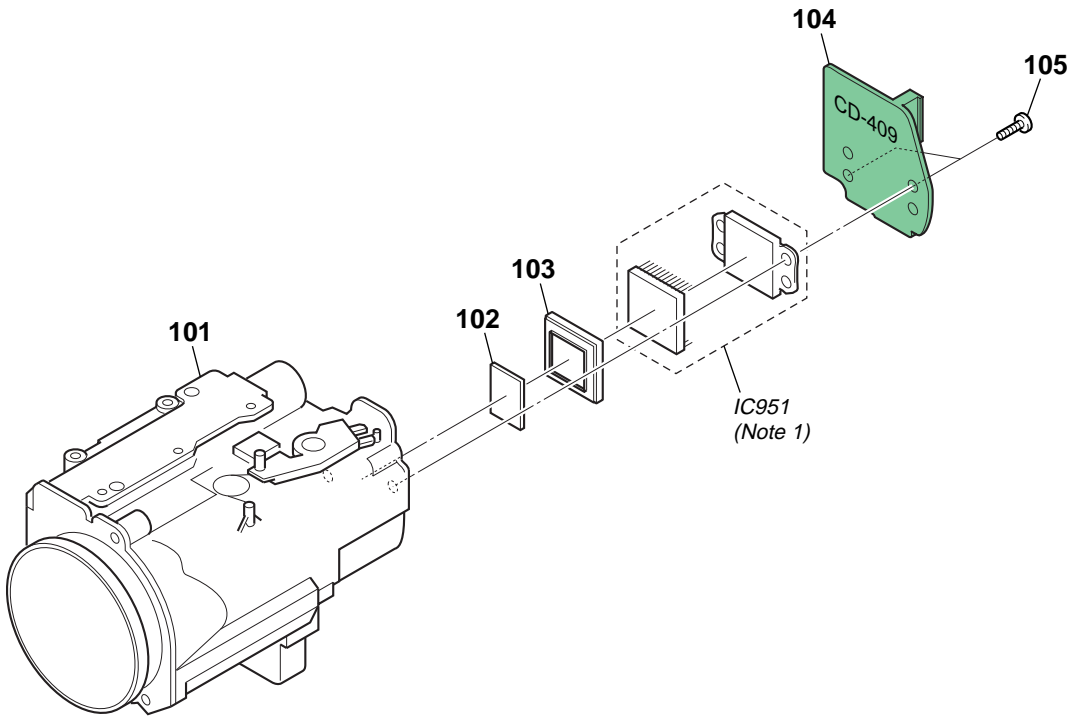


Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
51	X-3952-950-1	PANEL (30) ASSY, FRONT (TRV218E/TRV418/TRV418E)	60	A-7013-243-A	SI-035 BOARD, COMPLETE
51	X-3952-951-1	PANEL (30) ASSY, FRONT (TRV118/TRV318)	61	3-065-567-01	TAPPING (M1.7)
52	3-079-000-01	PLATE (30), NAME	62	3-079-004-01	CASE (30), SHIELD, SI (TRV218E/TRV418/TRV418E)
53	3-079-001-01	SHEET (30), ADHESIVE, PLATE	D752	8-719-060-65	DIODE DAC3825 (IR EMITTER)
54	3-078-999-01	SCREW(30),FILTER	D753	8-719-060-65	DIODE DAC3825 (IR EMITTER)
55	3-079-002-01	RING (30), FRONT	IC751	6-701-681-01	IC RPM7140-V4 (TRV218E/TRV418/TRV418E)
56	3-078-997-01	HOLDER (30), MICROPHONE	MIC901	1-542-312-11	MICROPHONE
57	3-078-996-01	RETAINER (30), MICROPHONE	SE751	1-803-042-31	SENSOR, ANGULAR VELOCITY (TRV318/TRV418/TRV418E)
58	1-686-853-21	FP-569 FLEXIBLE BOARD	SE752	1-803-042-41	SENSOR, ANGULAR VELOCITY (TRV318/TRV418/TRV418E)
59	3-080-231-01	SHEET (30), MICROPHONE			



5. REPAIR PARTS LIST

5-1-3. LENS BLOCK ASSEMBLY



(Note 1) Be sure to read "Precuations for Replacement of CCD Imager" on page 4-8 when changing the CCD imager.

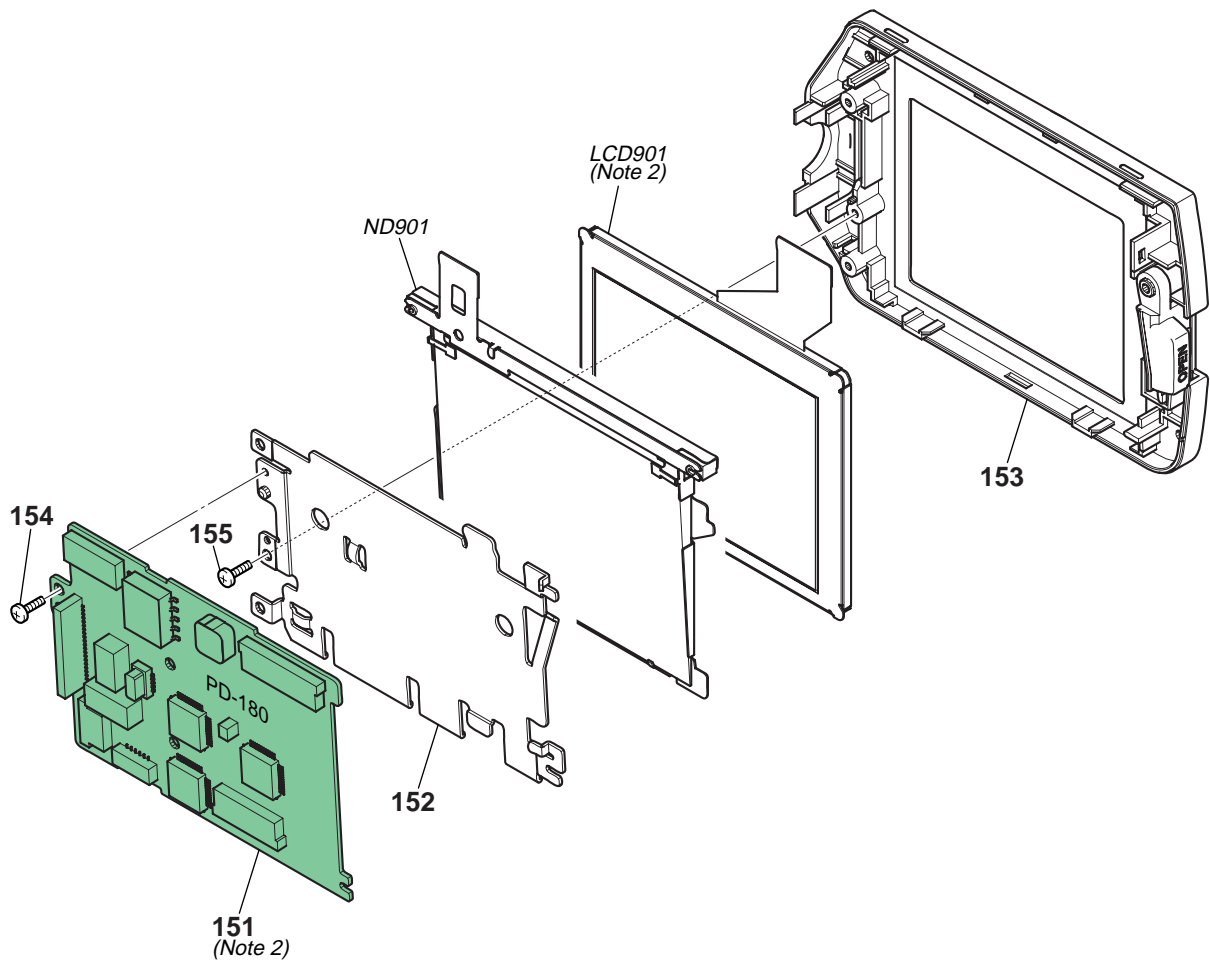
Ref. No.	Part No.	Description
101	8-848-765-01	DEVICE, LENS LSV-820A
102	1-758-865-11	FILTER BLOCK OPTICS
103	3-053-973-01	RUBBER (W), SEAL
104	A-7013-230-A	CD-409 BOARD, COMPLETE (TRV118/TRV318/TRV418)
104	A-7013-231-A	CD-409 BOARD, COMPLETE (TRV218E/TRV418E)

Ref. No.	Part No.	Description
105	3-065-567-01	TAPPING (M1.7)
IC951	A-7013-219-A	CCD BLOCK ASSY (CCD IMAGER) (Note 1) (TRV118/TRV318/TRV418)
IC951	A-7013-276-A	CCD BLOCK ASSY (CCD IMAGER) (Note 1) (TRV218E/TRV418E)



5. REPAIR PARTS LIST

5-1-4. LCD BLOCK ASSEMBLY



(Note 2) About PD-180 board and LCD module, discriminate LCD type on the machine referring to page 1-2, and replace the same type.

The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description
151	A-7013-232-A	PD-180 BOARD, COMPLETE (TYPE C)
151	A-7013-233-A	PD-180 BOARD, COMPLETE (TYPE S)
152	3-079-032-01	FRAME (30), P
153	X-3952-955-2	CABINET (M) (30) ASSY, P
154	3-078-889-11	SCREW (M1.7)
155	3-065-567-11	TAPPING (M1.7)

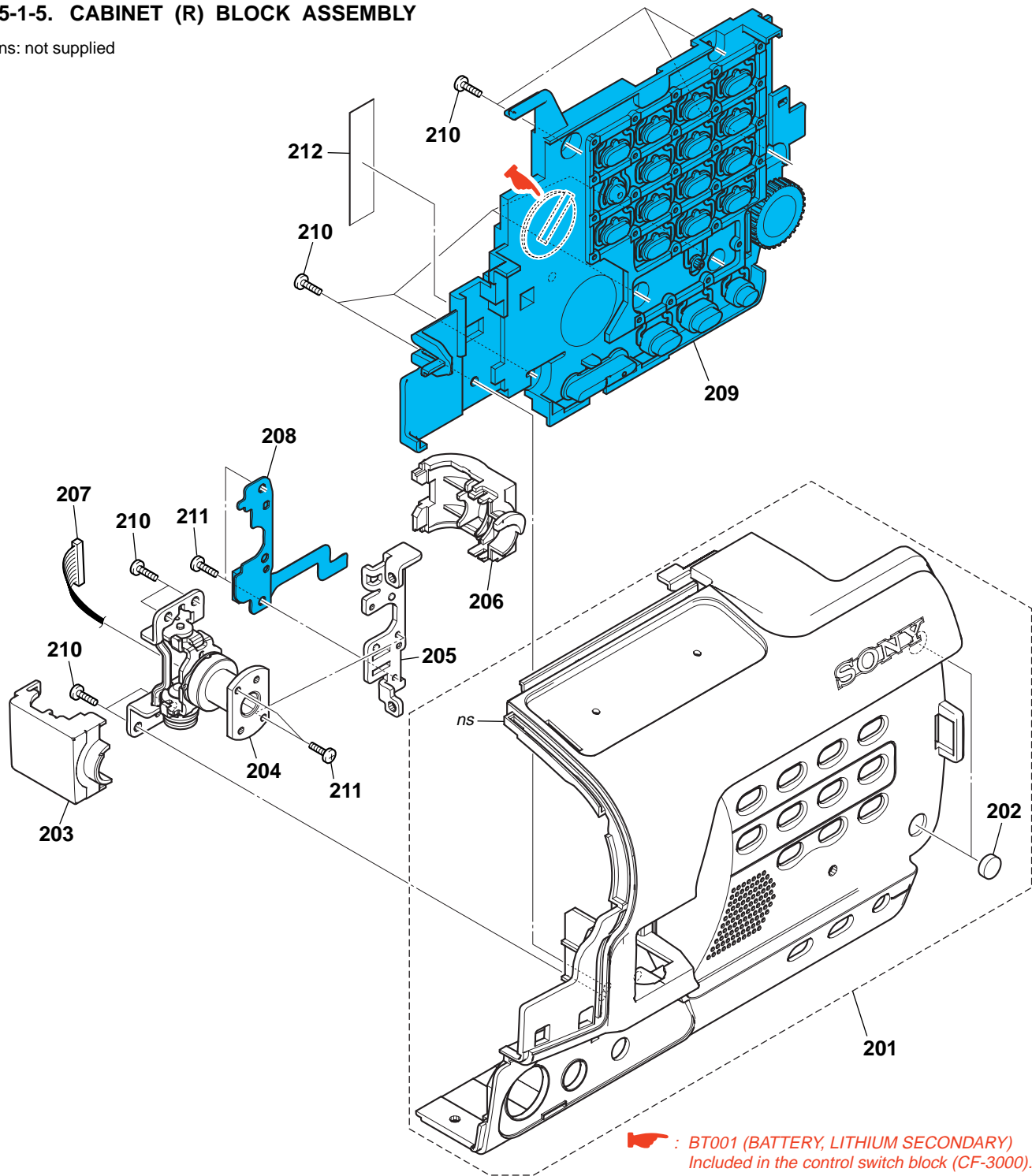
Ref. No.	Part No.	Description
LCD901	1-803-852-21	INDICATOR MODULE LIQUID CRYSTAL (TYPE S) (Note 2)
LCD901	1-803-859-21	INDICATOR MODULE LIQUID CRYSTAL (TYPE C) (Note 2)
Δ ND901	1-518-796-11	TUBE, FLUORESCENT,COLD CATHODE



5. REPAIR PARTS LIST

5-1-5. CABINET (R) BLOCK ASSEMBLY

ns: not supplied



Ref. No.	Part No.	Description
201	X-3952-953-3	CABINET (R) (30) ASSY
202	3-959-978-02	CUSHION, PANEL
203	3-079-059-01	COVER (C) (30), HINGE
204	X-3952-973-1	HINGE (30) ASSY
205	3-079-057-01	BRACKET (30), HINGE
206	3-079-058-01	COVER (M) (30), HINGE

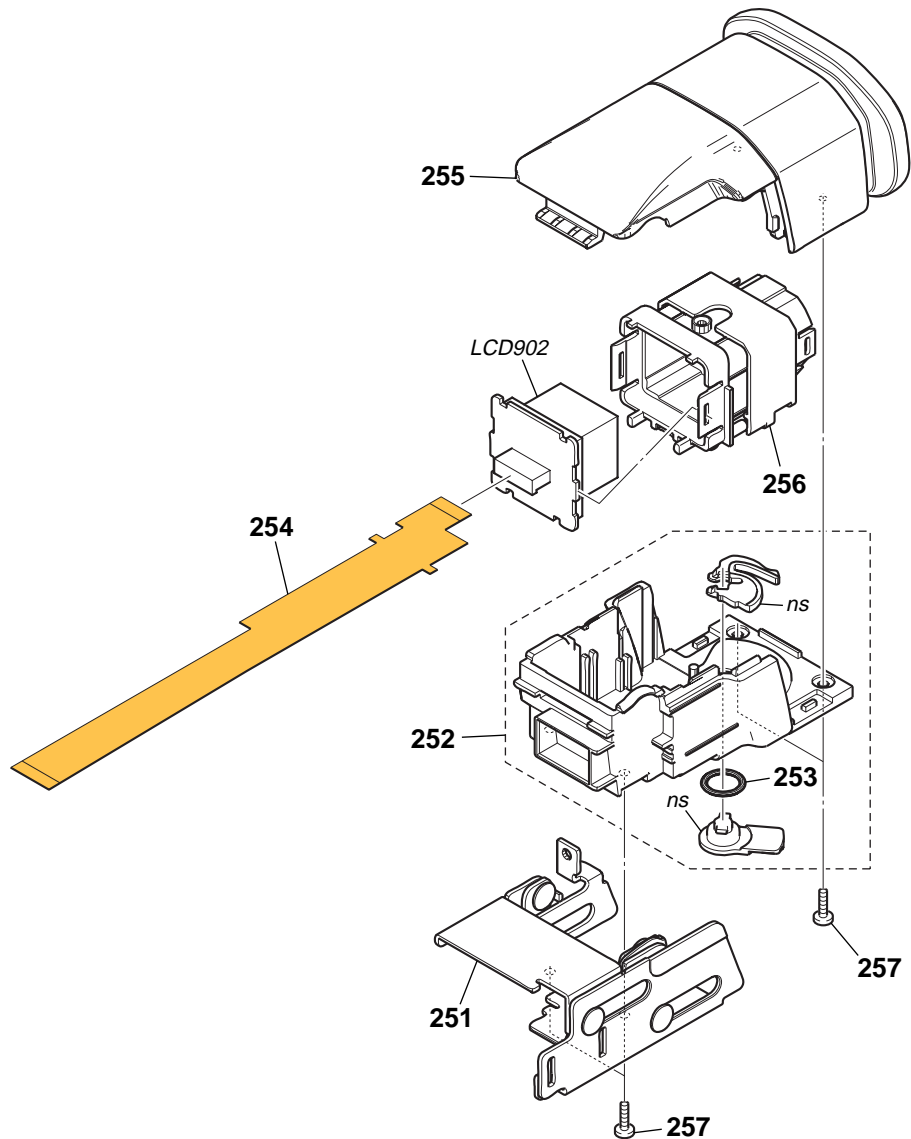
Ref. No.	Part No.	Description
207	1-961-989-11	HARNESS (PD-118)
208	1-477-675-11	SWITCH BLOCK, CONTROL (PR-3000)
209	1-477-673-11	SWITCH BLOCK, CONTROL (CF-3000)
210	3-080-205-21	SCREW, TAPPING, P2
211	3-989-735-41	SCREW (M1.7), LOCK ACE, P2
212	3-941-343-21	TAPE (A)



5. REPAIR PARTS LIST

5-1-6. EVF BLOCK ASSEMBLY

ns: not supplied



Ref. No.	Part No.	Description
251	X-3952-968-1	HINGE (30) ASSY, VF
252	X-3952-956-1	CABINET (LOWER) (30) (M) ASSY, EVF
253	3-950-044-01	RING, O
254	1-686-855-11	FP-572 FLEXIBLE BOARD
255	X-3952-957-1	CABINET (UPPER) (30) ASSY, EVF

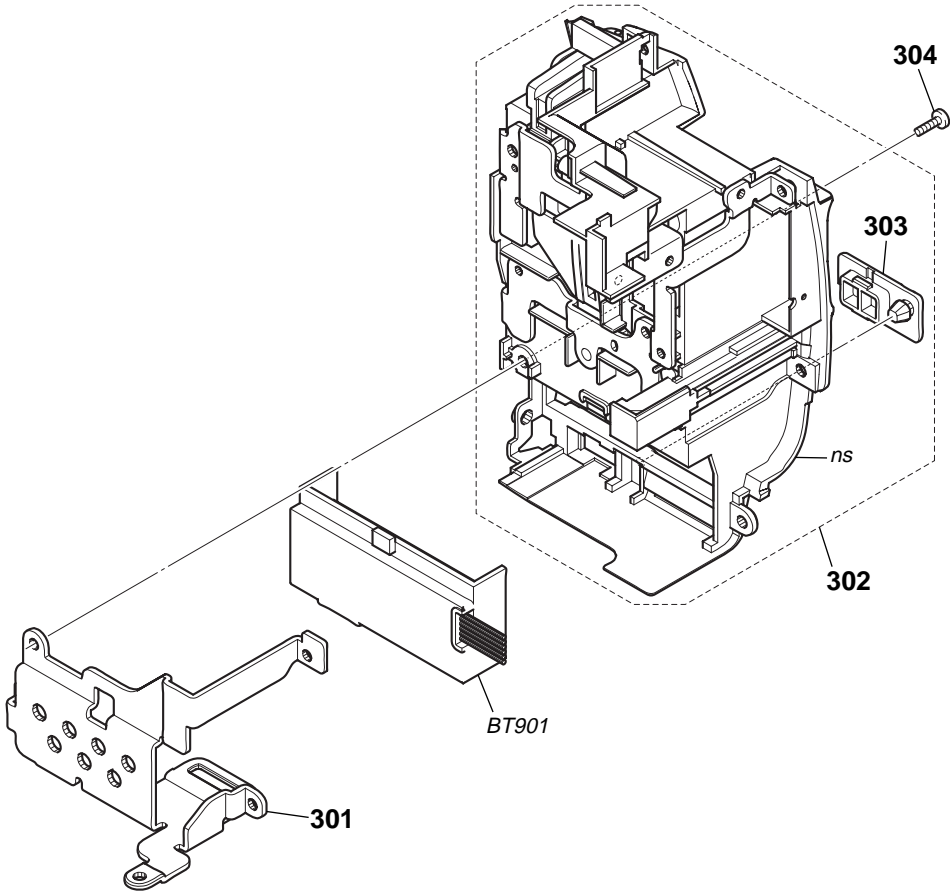
Ref. No.	Part No.	Description
256	X-3951-166-1	LENS (M) ASSY, VF
257	3-065-567-01	TAPPING (M1.7)
LCD902	1-805-058-21	INDICATOR MODULE LIQUID CRYSTAL (TRV118/TRV318/TRV418)
LCD902	1-805-058-41	INDICATOR MODULE LIQUID CRYSTAL (TRV218E/TRV418E)



5. REPAIR PARTS LIST

5-1-7. BATTERY PANEL BLOCK ASSEMBLY

ns: not supplied



Ref. No.	Part No.	Description
301	3-079-039-01	SHEET METAL (LOWER) (30),STRAP
302	X-3953-128-1	PANEL (30) ASSY, BATTERY
303	3-072-305-01	LID (2500), JACK

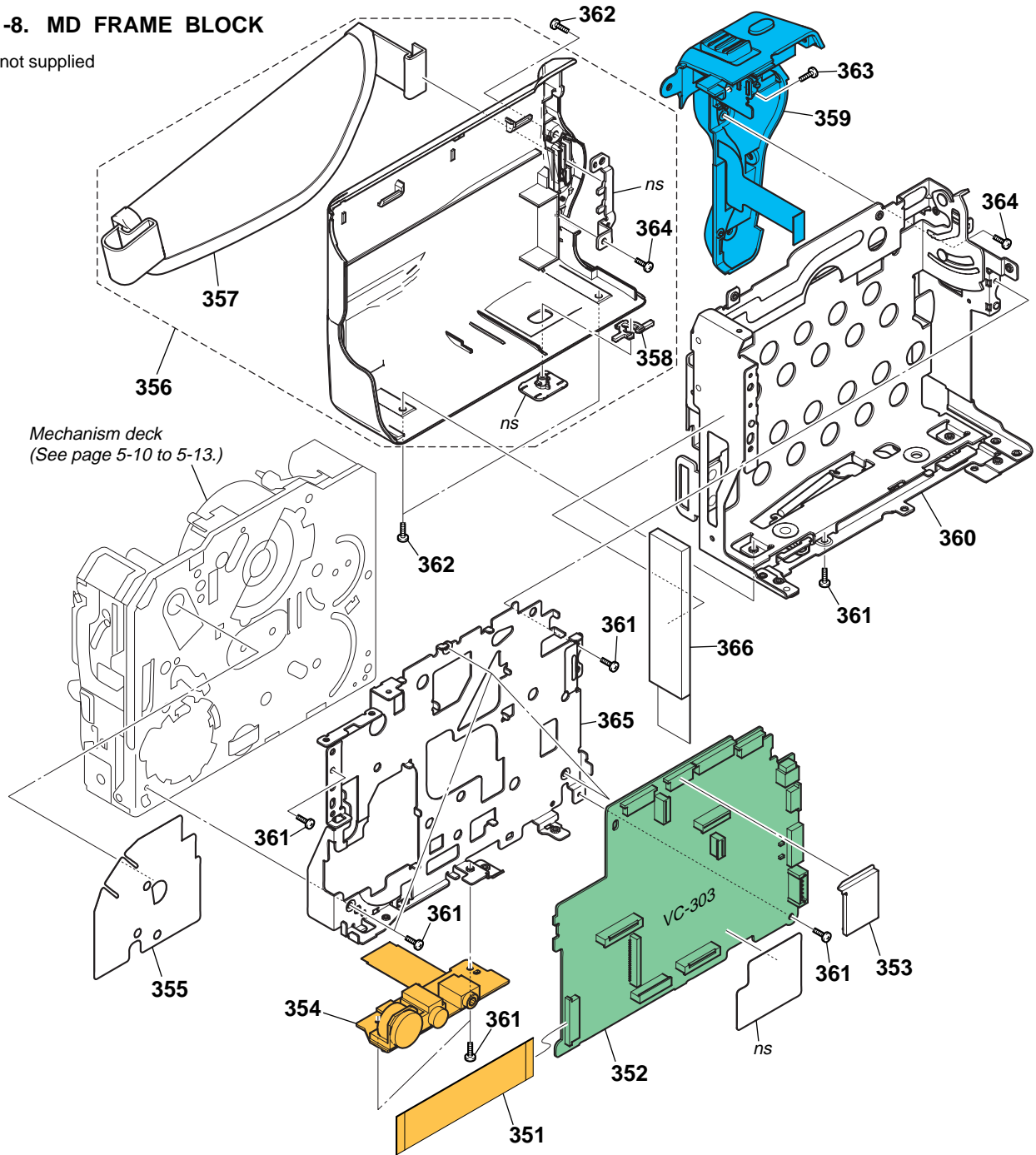
Ref. No.	Part No.	Description
304	3-067-347-01	M1 SCREW M2 (H)
BT901	1-694-772-11	TERMINAL BOARD, BATTERY



5. REPAIR PARTS LIST

5-1-8. MD FRAME BLOCK

ns: not supplied



Ref. No.	Part No.	Description
351	1-686-856-11	FP-573 FLEXIBLE BOARD
352	A-7013-492-A	VC-303 BOARD, COMPLETE (SERVICE) (TRV118)
352	A-7013-493-A	VC-303 BOARD, COMPLETE (SERVICE) (TRV218E)
352	A-7013-494-A	VC-303 BOARD, COMPLETE (SERVICE) (TRV318/TRV418)
352	A-7013-495-A	VC-303 BOARD, COMPLETE (SERVICE) (TRV418E)
353	3-079-009-01	CASE (30), SHIELD, RP
354	1-686-859-21	FP-576 FLEXIBLE BOARD
355	3-066-169-01	SHEET (30), MD

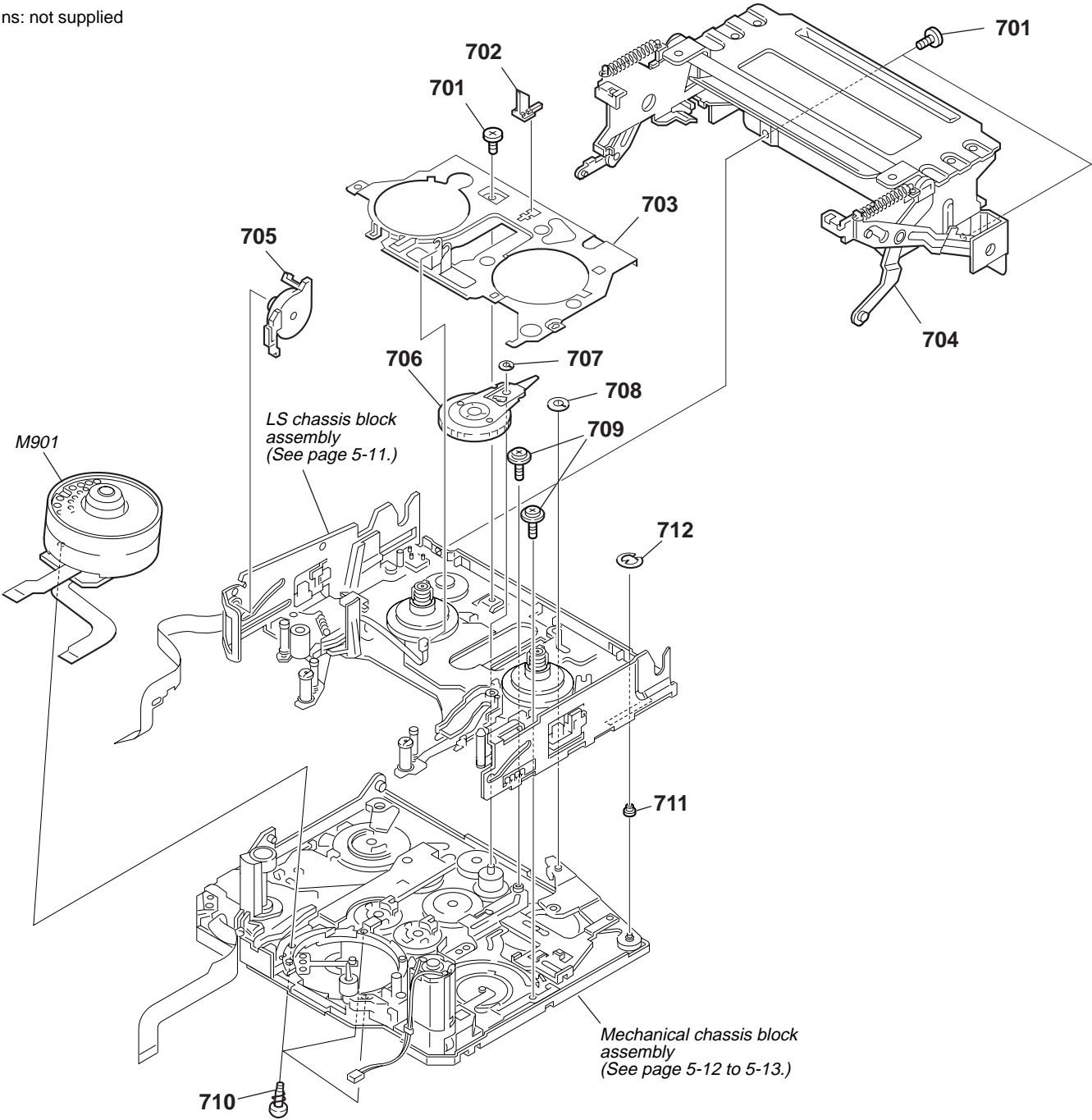
Ref. No.	Part No.	Description
356	X-3952-959-1	CABINET (L) (30) ASSY
357	3-052-815-01	BELT (ES), GRIP
358	3-978-765-01	SLIDER, G LOCK
359	1-477-674-11	SWITCH BLOCK, CONTROL (SS-3000)
360	X-3952-970-1	FRAME ASSY (30), CS
361	3-078-889-11	SCREW (M1.7)
362	3-080-221-11	SCREW (M2), ES LOCK
363	3-080-221-21	SCREW (M2), ES LOCK
364	3-080-222-21	SCREW (M1.7), TAPPING, P2
365	3-079-006-01	FRAME (30), MD
366	3-079-176-01	COVER, MD (30)



5. REPAIR PARTS LIST

5-1-9. CASSETTE COMPARTMENT ASSEMBLY, DRUM ASSEMBLY

ns: not supplied



Ref. No.	Part No.	Description
701	3-065-932-01	PAN (2 MAIN M1.4X1.6), CAMERA
702	3-065-895-01	LEVER, REEL RELEASE
703	3-065-896-01	PLATE, BLIND
704	X-3951-298-1	CASSETTE COMPARTMENT ASSY
705	X-3951-302-1	DAMPER ASSY
706	X-3951-297-1	GEAR ASSY, R DRIVE
707	3-065-840-01	CUT (0.98X3X0.13), LUMILER (W)
708	3-065-935-01	HLC CUT 1.8X4X0.5

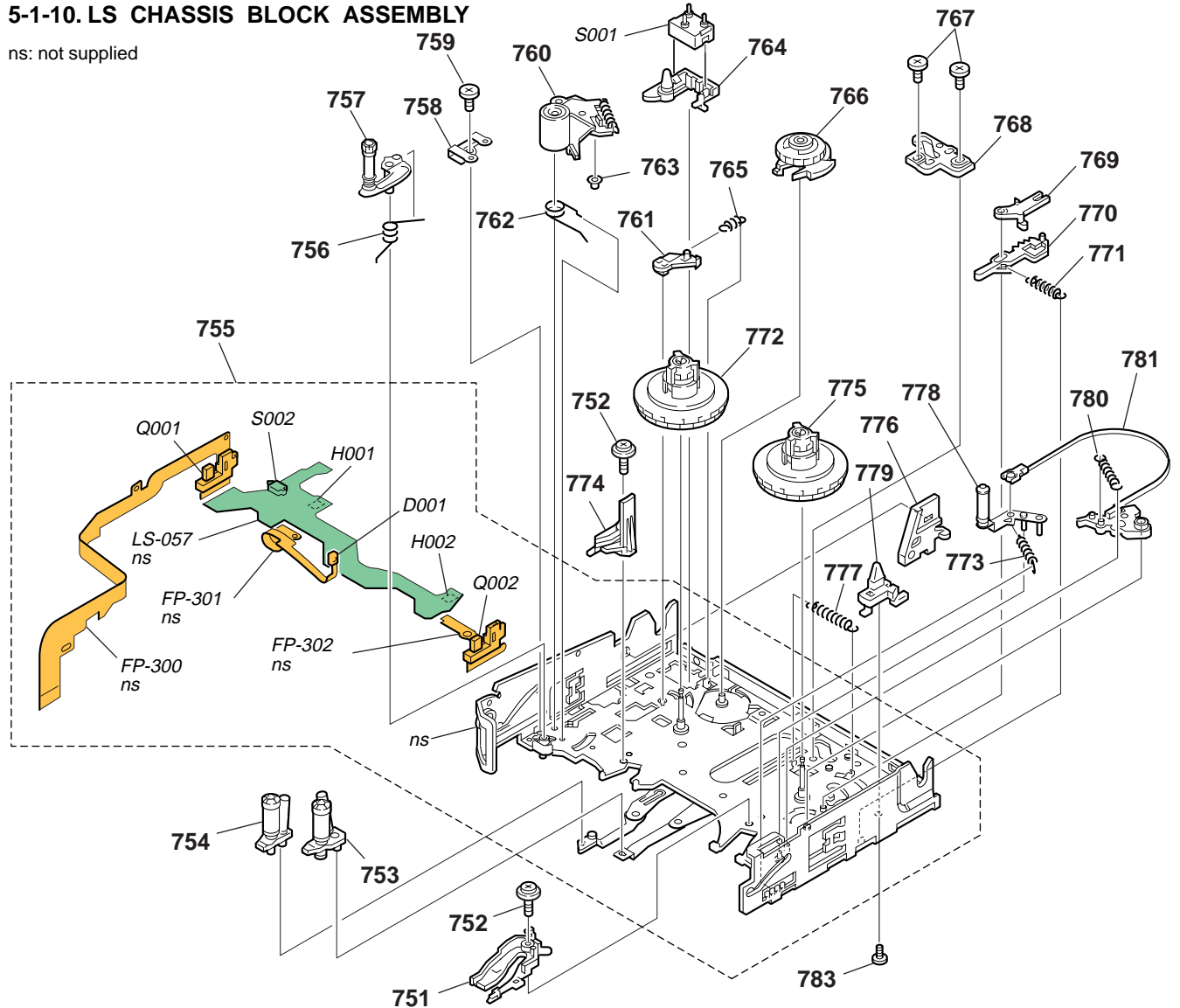
Ref. No.	Part No.	Description
709	3-947-503-01	SCREW (M1.4)
710	X-3951-299-1	SCREW ASSY, DRUM FITTING
711	3-074-309-01	ROLLER A, LS GUIDE
712	7-624-101-04	STOP RING 1.2 (E TYPE)
M901	A-7048-965-A	DRUM (DGH-0F3A-R) (SERVICE) (MDX-M2100) (TRV118/TRV318/TRV418)
M901	A-7048-966-A	DRUM (DGH-0F4A-R) (SERVICE) (MDX-M2101) (TRV218E/TRV418E)



5. REPAIR PARTS LIST

5-1-10. LS CHASSIS BLOCK ASSEMBLY

ns: not supplied



Ref. No.	Part No.	Description
751	3-065-822-02	RAIL (S), GUIDE
752	3-947-503-01	SCREW (M1.4)
753	A-7096-416-B	BASE (S) BLOCK ASSY, GUIDE
754	A-7096-415-A	BASE (T) BLOCK ASSY, GUIDE
755	A-7096-426-A	CHASSIS ASSY, LS
756	3-065-802-01	SPRING, TG7 ARM
757	A-7096-414-A	ARM BLOCK ASSY, TG7
758	3-065-801-01	RETAINER, TG7
759	3-065-932-01	PAN (2 MAIN M1.4X1.6), CAMERA
760	X-3951-303-1	ARM ASSY, PINCH
761	3-065-823-01	ARM, T RATCHET
762	3-065-794-01	ROAD (SPR), PINCH ARM
763	3-065-792-01	ROLLER, P LIM ARM
764	3-065-834-01	GUIDE (T), CASSETTE
765	3-065-824-01	SPRING, T RATCHET
766	A-7096-417-A	SOFT ASSY, T
767	3-071-650-01	SCREW (M1.7) (S)
768	3-065-832-01	PLATE, LS CAM
769	3-065-828-01	ARM, S RATCHET
770	3-065-829-01	PLATE, S RATCHET (RE)

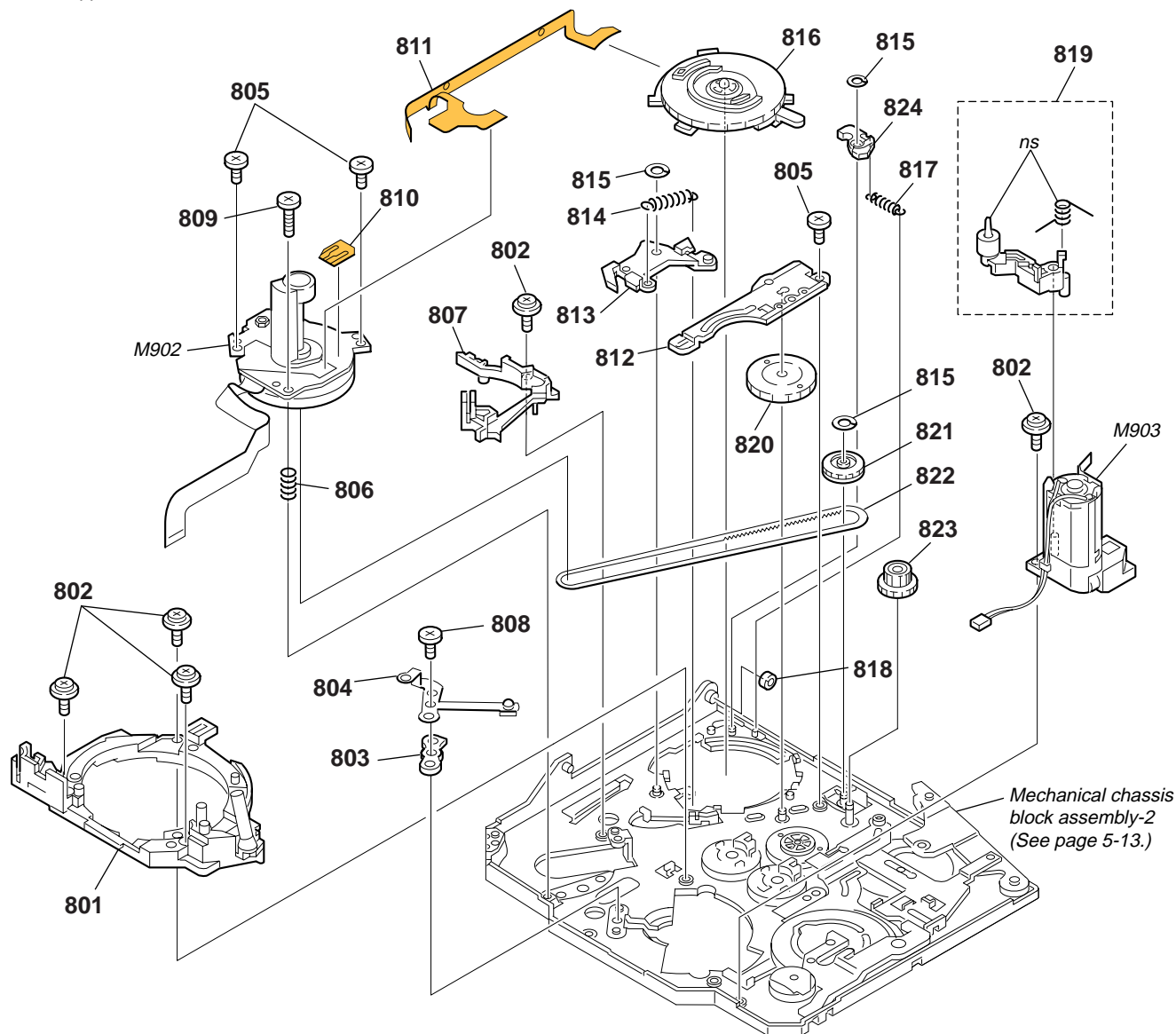
Ref. No.	Part No.	Description
771	3-065-830-01	SPRING, S RATCHET
772	X-3951-288-1	TABLE (T) ASSY, REEL
773	3-065-819-01	SPRING, TG1 ARM
774	3-065-821-01	RAIL (T), GUIDE
775	X-3951-289-1	TABLE (S) ASSY, REEL
776	3-065-833-01	GUIDE, LOCK
777	3-065-831-01	PLATE (SPR), RE RETURN
778	X-3951-304-1	ARM ASSY, TG1
779	3-065-835-01	GUIDE (S), CASSETTE
780	3-065-820-01	SPRING, RVS ARM
781	X-3951-296-1	BAND (ASSY), BT
783	3-067-167-01	SCREW (M1.4X2), CAMERA TAPPING
D001	8-719-988-42	DIODE GL453 (TAPE LED)
H001	8-719-033-37	ELEMENT, HALL HW-105C (T REEL)
H002	8-719-033-37	ELEMENT, HALL HW-105C (S REEL)
Q001	8-729-907-25	PHOTO TRANSISTOR PT4850F (TAPE TOP)
Q002	8-729-907-25	PHOTO TRANSISTOR PT4850F (TAPE END)
S001	1-692-614-11	SWITCH, PUSH (3 KEY) (REC PROOF)
S002	1-572-688-11	SWITCH, PUSH LEVER (1 KEY) (C. C. LOCK)



5. REPAIR PARTS LIST

5-1-11. MECHANICAL CHASSIS BLOCK ASSEMBLY-1

ns: not supplied



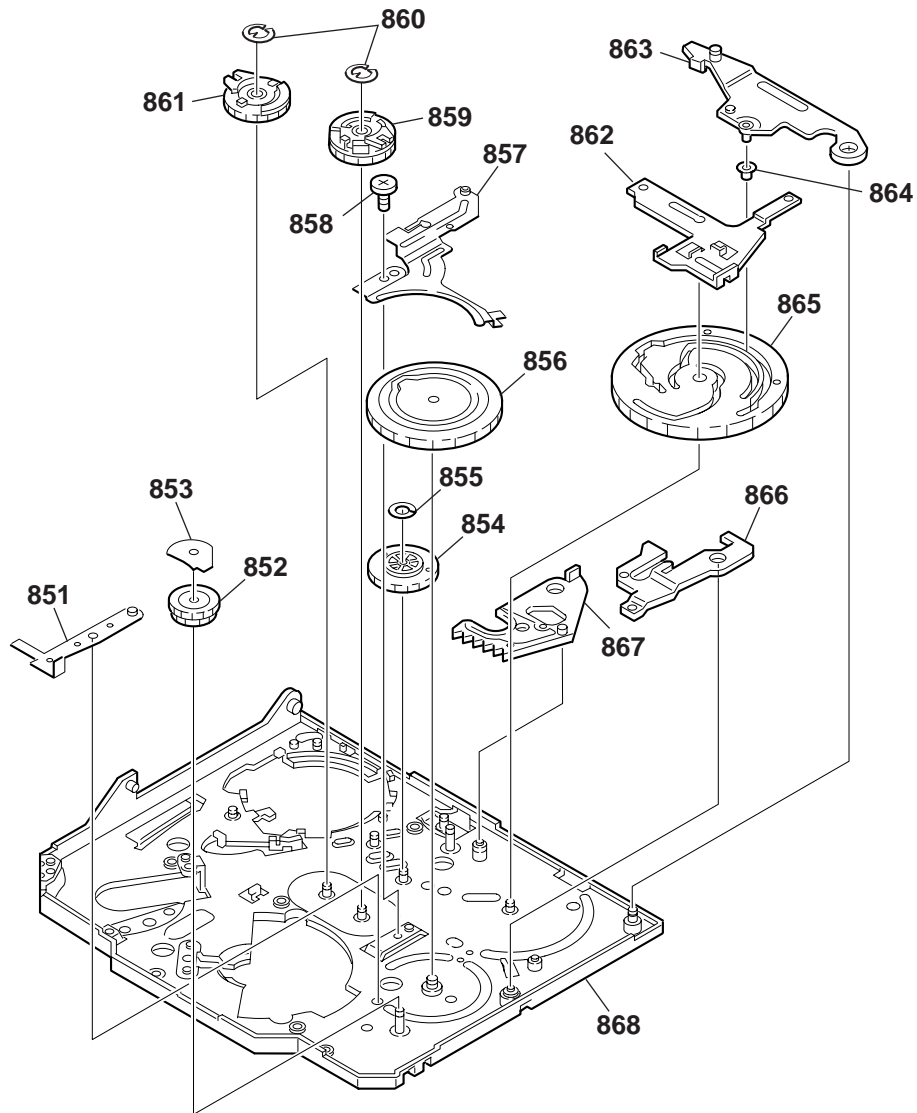
Ref. No.	Part No.	Description
801	A-7096-422-A	BASE ASSY, DRUM
802	3-947-503-01	SCREW (M1.4)
803	3-065-928-01	SPACER, GROUND
804	3-065-927-01	GROUND, DRUM
805	3-065-932-01	PAN (2 MAIN M1.4X1.6), CAMERA
806	3-067-154-01	SPRING, CAPSTAN
807	3-065-931-01	RAIL (T2), GUIDE
808	X-3947-398-1	SCREW ASSY, M1.7 PW
809	3-065-933-01	PAN (2 MAIN 1.4X4.5), CAMERA
810	1-677-049-11	PWB, FP-228 FLEXIBLE
811	1-680-434-11	PWB, FP-299 FLEXIBLE
812	3-065-877-01	PLATE (T), GUIDE LOCK
813	X-3951-301-1	PLATE ASSY, PINCH PRESSURE

Ref. No.	Part No.	Description
814	3-065-881-01	SPRING, P PRESSURE PLATE
815	3-065-934-01	HLW CUT 0.98X3X0.25
816	1-786-096-11	SWITCH, ROTARY
817	3-065-898-01	SPRING, EJECT ARM
818	3-065-870-01	ROLLER, LS GUIDE
819	A-7096-421-A	ARM ASSY, HCL
820	3-065-918-01	GEAR (2), CAM RELAY
821	A-7096-419-A	GEAR ASSY, CHANGE
822	3-065-902-01	BELT, TIMING
823	3-065-905-01	GEAR, RELAY
824	3-065-882-01	ARM, EJECT
M902	8-835-701-01	MOTOR, DC SCE13A/C-NP (CAPSTAN)
M903	A-7096-420-A	MOTOR ASSY, LD (LOADING)



5. REPAIR PARTS LIST

5-1-12. MECHANICAL CHASSIS BLOCK ASSEMBLY-2



Ref. No.	Part No.	Description
851	3-065-920-01	ARM, HC DRIVE
852	3-065-913-01	GEAR (4), LD
853	3-065-914-01	SHEET, COVER
854	3-065-917-01	GEAR (1), CAM RELAY
855	3-065-934-01	HLW CUT 0.98X3X0.25
856	3-065-915-01	GEAR (1), CAM
857	3-065-878-01	PLATE (S), GUIDE LOCK
858	3-065-932-01	PAN (2 MAIN M1.4X1.6), CAMERA
859	A-7096-413-A	GEAR (S) ASSY, GUIDE

Ref. No.	Part No.	Description
860	7-624-101-04	STOP RING 1.2 (E TYPE)
861	A-7096-412-A	GEAR (T) ASSY, GUIDE
862	X-3951-307-1	PLATE ASSY, M SLIDE
863	X-3951-305-1	ARM ASSY, LS
864	3-065-901-01	ROLLER, LS ARM
865	3-065-916-01	GEAR (2), CAM
866	3-065-919-01	ARM, T1 LIMITER
867	X-3951-308-1	ARM ASSY, GL
868	X-3951-300-2	CHASSIS ASSY, MECHANICAL

CCD-TRV118/TRV218E/TRV318/TRV418/TRV418E

CD-409	FP-300	FP-301	FP-302	LS-057	PD-180 (TYPE C)
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5-2. ELECTRICAL PARTS LIST

Ref. No.	Part No.	Description
A-7013-230-A	CD-409 BOARD, COMPLETE	(TRV118/TRV318/TRV418)
A-7013-231-A	CD-409 BOARD, COMPLETE	(TRV218E/TRV418E)

(IC951 is not include in this complete board.)		
< CAPACITOR >		
C951	1-126-395-11	ELECT 22uF 20% 16V
C953	1-128-994-21	ELECT CHIP 47uF 20% 10V
C955	1-164-360-11	CERAMIC CHIP 0.1uF 16V
< CONNECTOR >		
CN951	1-779-331-11	CONNECTOR, FFC/FPC 14P
< IC >		
IC951	A-7013-219-A	CCD BLOCK ASSY (CCD IMAGER) (Note)
		(TRV118/TRV318/TRV418)
IC951	A-7013-276-A	CCD BLOCK ASSY (CCD IMAGER) (Note)
		(TRV218E/TRV418E)
< COIL >		
L951	1-469-528-91	INDUCTOR 100uH
< TRANSISTOR >		
Q951	8-729-117-73	TRANSISTOR 2SC4178-F14
< RESISTOR >		
R952	1-208-635-11	RES-CHIP 10 5% 1/16W
R953	1-218-965-11	RES-CHIP 10K 5% 1/16W
FP-300 FLEXIBLE BOARD (Not Supplied)		

< TRANSISTOR >		
Q001	8-729-907-25	PHOTO TRANISTOR PT4850F (TAPE TOP)
FP-301 FLEXIBLE BOARD (Not Supplied)		

< DIODE >		
D001	8-719-988-42	DIODE GL453 (TAPE LED)
FP-302 FLEXIBLE BOARD (Not Supplied)		

< TRANSISTOR >		
Q002	8-729-907-25	PHOTO TRANISTOR PT4850F (TAPE END)

(Note) Be sure to read "Precautions for Replacement of CCD Imager" on page 4-8 when changing the CCD imager.

Ref. No.	Part No.	Description
		LS-057 BOARD (Not Supplied)

< HALL ELEMENT >		
H001	8-719-033-37	ELEMENT, HALL HW-105C (T REL)
H002	8-719-033-37	ELEMENT, HALL HW-105C (S REL)
< SWITCH >		
S001	1-692-614-11	SWITH, PUSH (3KEY) (REC PROOF)
A-7013-232-A PD-180 BOARD, COMPLETE (TYPE C)		

< CAPACITOR >		
C5503	1-119-750-11	TANTAL. CHIP 22uF 20% 6.3V
C5504	1-164-943-11	CERAMIC CHIP 0.01uF 10% 16V
C5505	1-164-943-11	CERAMIC CHIP 0.01uF 10% 16V
C5506	1-164-943-11	CERAMIC CHIP 0.01uF 10% 16V
C5507	1-164-943-11	CERAMIC CHIP 0.01uF 10% 16V
C5509	1-110-457-11	ELECT CHIP 3.3uF 20% 25V
C5510	1-164-943-11	CERAMIC CHIP 0.01uF 10% 16V
C5511	1-164-739-11	CERAMIC CHIP 560PF 5% 50V
C5512	1-125-777-11	CERAMIC CHIP 0.1uF 10% 10V
C5513	1-164-943-11	CERAMIC CHIP 0.01uF 10% 16V
C5514	1-119-750-11	TANTAL. CHIP 22uF 20% 6.3V
C5515	1-164-937-11	CERAMIC CHIP 0.001uF 10% 50V
C5516	1-164-882-11	CERAMIC CHIP 220PF 5% 16V
C5517	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V
C5518	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V
C5519	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V
C5520	1-115-407-11	ELECT CHIP 10uF 20% 16V
C5521	1-127-573-11	CERAMIC CHIP 1uF 10% 16V
C5524	1-127-573-11	CERAMIC CHIP 1uF 10% 16V
C5527	1-164-943-11	CERAMIC CHIP 0.01uF 10% 16V
C5603	1-163-023-00	CERAMIC CHIP 0.015uF 5% 50V
C5604	1-125-777-11	CERAMIC CHIP 0.1uF 10% 10V
C5605	1-125-777-11	CERAMIC CHIP 0.1uF 10% 10V
△C5606	1-100-371-11	CERAMIC CHIP 12PF 5% 3.15KV
C5607	1-115-566-11	CERAMIC CHIP 4.7uF 10% 10V
< CONNECTOR >		
CN5501	1-815-031-11	CONNECTOR, FFC/FPC (ZIF) 24P
* CN5502	1-573-984-11	CONNECTOR, BOARD TO BOARD 10P
CN5601	1-764-709-11	CONNECTOR, FFC/FPC (LIF) 10P
CN5701	1-794-998-31	PIN, CONNECTOR 20P
CN5702	1-816-176-11	CONNECTOR, FFC/FPC (ZIF) 6P
< DIODE >		
D5502	8-719-084-47	DIODE 1SV290 (TPL3)
D5601	8-719-988-61	DIODE 1SS355TE-17
< IC >		
IC5501	8-759-660-92	IC RB5P003AM1
IC5502	8-759-833-18	IC CM7021L3-E2
IC5601	8-759-564-49	IC TC7W53FU (TE12R)
IC5602	8-759-075-70	IC TA75S393F

The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque △ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.
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PD-180 (TYPE C)

PD-180 (TYPE S)

Ref. No.	Part No.	Description				
< COIL >						
L5501	1-469-526-91	INDUCTOR	22uH			
L5502	1-469-526-91	INDUCTOR	22uH			
L5503	1-412-956-21	INDUCTOR	27uH			
L5601	1-428-878-11	INDUCTOR	82uH			
L5602	1-412-056-11	INDUCTOR	4.7uH			
< TRANSISTOR >						
Q5601	6-550-119-01	TRANSISTOR	DTC144EMT2L			
Q5602	6-550-083-01	TRANSISTOR	TPC6C01 (TE85R)			
< RESISTOR >						
R5501	1-218-985-11	RES-CHIP	470K	5%	1/16W	
R5503	1-208-935-11	METAL CHIP	100K	0.5%	1/16W	
R5505	1-218-967-11	RES-CHIP	15K	5%	1/16W	
R5506	1-218-958-11	RES-CHIP	2.7K	5%	1/16W	
R5507	1-218-973-11	RES-CHIP	47K	5%	1/16W	
R5508	1-218-975-11	RES-CHIP	68K	5%	1/16W	
R5509	1-218-969-11	RES-CHIP	22K	5%	1/16W	
R5510	1-218-975-11	RES-CHIP	68K	5%	1/16W	
R5511	1-218-989-11	RES-CHIP	1M	5%	1/16W	
R5512	1-218-977-11	RES-CHIP	100K	5%	1/16W	
R5514	1-218-990-11	SHORT CHIP	0			
R5516	1-218-965-11	RES-CHIP	10K	5%	1/16W	
R5517	1-218-981-11	RES-CHIP	220K	5%	1/16W	
R5518	1-218-990-11	SHORT CHIP	0			
R5520	1-218-990-11	SHORT CHIP	0			
R5521	1-218-973-11	RES-CHIP	47K	5%	1/16W	
R5522	1-218-955-11	RES-CHIP	1.5K	5%	1/16W	
R5525	1-218-990-11	SHORT CHIP	0			
R5528	1-218-990-11	SHORT CHIP	0			
R5529	1-218-990-11	SHORT CHIP	0			
R5530	1-218-990-11	SHORT CHIP	0			
R5534	1-218-990-11	SHORT CHIP	0			
R5542	1-414-760-21	FERRITE	0uH (Note)			
R5544	1-414-760-21	FERRITE	0uH (Note)			
R5602	1-218-977-11	RES-CHIP	100K	5%	1/16W	
R5603	1-218-966-11	RES-CHIP	12K	5%	1/16W	
R5606	1-218-969-11	RES-CHIP	22K	5%	1/16W	
R5607	1-218-949-11	RES-CHIP	470	5%	1/16W	
R5610	1-216-824-11	METAL CHIP	1.8K	5%	1/16W	
< COMPOSITION CIRCUIT BLOCK >						
RB5501	1-234-372-21	RES, NETWORK 100 x4 (1005)				
RB5601	1-234-378-21	RES, NETWORK 10K x4 (1005)				
< TRANSFORMER >						
△ T5601	1-435-786-31	TRANSFORMER, INVERTER				
A-7013-233-A PD-180 BOARD, COMPLETE (TYPE S)						

< CAPACITOR >						
C5503	1-119-750-11	TANTAL. CHIP	22uF	20%	6.3V	
C5504	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V	
C5505	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V	

Ref. No.	Part No.	Description				
C5506	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V	
C5507	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V	
C5509	1-110-457-11	ELECT CHIP	3.3uF	20%	25V	
C5510	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V	
C5511	1-164-739-11	CERAMIC CHIP	560PF	5%	50V	
C5512	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	
C5513	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V	
C5514	1-119-750-11	TANTAL. CHIP	22uF	20%	6.3V	
C5515	1-164-937-11	CERAMIC CHIP	0.001uF	10%	50V	
C5516	1-164-874-11	CERAMIC CHIP	100PF	5%	50V	
C5517	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C5518	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C5519	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C5520	1-115-407-11	ELECT CHIP	10uF	20%	16V	
C5521	1-127-573-11	CERAMIC CHIP	1uF	10%	16V	
C5524	1-127-573-11	CERAMIC CHIP	1uF	10%	16V	
C5527	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V	
C5528	1-125-827-91	CERAMIC CHIP	1uF	10%	25V	
C5530	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V	
C5531	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V	
C5603	1-163-023-00	CERAMIC CHIP	0.015uF	5%	50V	
C5604	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	
C5605	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	
△ C5606	1-100-371-11	CERAMIC CHIP	12PF	5%	3.15KV	
C5607	1-115-566-11	CERAMIC CHIP	4.7uF	10%	10V	
< CONNECTOR >						
CN5501	1-815-031-11	CONNECTOR, FFC/FPC (ZIF) 24P				
* CN5502	1-573-984-11	CONNECTOR, BOARD TO BOARD 10P				
CN5601	1-764-709-11	CONNECTOR, FFC/FPC (LIF) 10P				
CN5701	1-794-998-31	PIN, CONNECTOR 20P				
CN5702	1-816-176-11	CONNECTOR, FFC/FPC (ZIF) 6P				
< DIODE >						
D5502	8-719-084-47	DIODE 1SV290 (TPL3)				
D5503	8-719-988-61	DIODE 1SS355TE-17				
D5601	8-719-988-61	DIODE 1SS355TE-17				
< IC >						
IC5501	8-759-660-92	IC RB5P003AM1				
IC5502	8-759-714-77	IC LZ9FF474				
IC5601	8-759-564-49	IC TC7W53FU (TE12R)				
IC5602	8-759-075-70	IC TA75S393F				
< COIL >						
L5501	1-469-526-91	INDUCTOR	22uH			
L5502	1-469-526-91	INDUCTOR	22uH			
L5503	1-412-956-21	INDUCTOR	27uH			
L5601	1-428-878-11	INDUCTOR	82uH			
L5602	1-412-056-11	INDUCTOR	4.7uH			
< TRANSISTOR >						
Q5502	6-550-232-01	TRANSISTOR	2SA2029T2LQ/R			
Q5503	8-729-054-48	TRANSISTOR	UP04601008S0			
Q5504	8-729-054-48	TRANSISTOR	UP04601008S0			
Q5505	6-550-242-01	TRANSISTOR	DTC114EMT2L			
Q5601	6-550-119-01	TRANSISTOR	DTC144EMT2L			
Q5602	6-550-083-01	TRANSISTOR	TPC6C01 (TE85R)			

Note: Ferrite beads are mounted to the location where R5542, R5544 are printed. (TYPE C only)

The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque △ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

CCD-TRV118/TRV218E/TRV318/TRV418/TRV418E

PD-180 (TYPE S)

SI-035

VC-303

Ref. No.	Part No.	Description
< RESISTOR >		
R5501	1-218-985-11	RES-CHIP 470K 5% 1/16W
R5503	1-208-935-11	METAL CHIP 100K 0.5% 1/16W
R5505	1-218-967-11	RES-CHIP 15K 5% 1/16W
R5506	1-218-958-11	RES-CHIP 2.7K 5% 1/16W
R5507	1-218-973-11	RES-CHIP 47K 5% 1/16W
R5508	1-218-975-11	RES-CHIP 68K 5% 1/16W
R5509	1-218-969-11	RES-CHIP 22K 5% 1/16W
R5510	1-218-975-11	RES-CHIP 68K 5% 1/16W
R5511	1-218-989-11	RES-CHIP 1M 5% 1/16W
R5512	1-218-977-11	RES-CHIP 100K 5% 1/16W
R5513	1-218-989-11	RES-CHIP 1M 5% 1/16W
R5515	1-218-990-11	SHORT CHIP 0
R5516	1-218-965-11	RES-CHIP 10K 5% 1/16W
R5519	1-218-990-11	SHORT CHIP 0
R5521	1-218-973-11	RES-CHIP 47K 5% 1/16W
R5522	1-218-953-11	RES-CHIP 1K 5% 1/16W
R5531	1-218-980-11	RES-CHIP 180K 5% 1/16W
R5532	1-218-973-11	RES-CHIP 47K 5% 1/16W
R5533	1-218-960-11	RES-CHIP 3.9K 5% 1/16W
R5534	1-218-990-11	SHORT CHIP 0
R5542	1-216-864-11	METAL CHIP 0 5% 1/16W
R5544	1-216-864-11	METAL CHIP 0 5% 1/16W
R5545	1-218-953-11	RES-CHIP 1K 5% 1/16W
R5602	1-218-977-11	RES-CHIP 100K 5% 1/16W
R5603	1-218-966-11	RES-CHIP 12K 5% 1/16W
R5606	1-218-969-11	RES-CHIP 22K 5% 1/16W
R5607	1-218-949-11	RES-CHIP 470 5% 1/16W
R5610	1-216-824-11	METAL CHIP 1.8K 5% 1/16W
< COMPOSITION CIRCUIT BLOCK >		
RB5501	1-234-372-21	RES, NETWORK 100 x4 (1005)
RB5502	1-234-384-11	RES, NETWORK 1M x4 (1005)
RB5503	1-234-378-21	RES, NETWORK 10K x4 (1005)
RB5601	1-234-378-21	RES, NETWORK 10K x4 (1005)
< TRANSFORMER >		
T5601	1-435-786-31	TRANSFORMER, INVERTER
A-7013-243-A SI-035 BOARD, COMPLETE		

(D752, D753, IC751, SE751 and SE752 are not included in this complete board.)		
< CAPACITOR >		
C751	1-104-847-11	TANTAL. CHIP 22uF 20% 4V
C752	1-104-847-11	TANTAL. CHIP 22uF 20% 4V
C755	1-115-566-11	CERAMIC CHIP 4.7uF 10% 10V
< CONNECTOR >		
CN752	1-695-320-21	PIN, CONNECTOR (1.5MM) (SMD) 2P
CN753	1-779-335-21	CONNECTOR, FFC/FPC 22P
CN754	1-779-327-11	CONNECTOR, FFC/FPC 6P
< DIODE >		
D752	8-719-060-65	DIODE DCC3810 (IR EMITTER)

Ref. No.	Part No.	Description
D753	8-719-060-65	DIODE DCC3810 (IR EMITTER)
D754	8-719-064-07	DIODE SML-310LTT86 (TALLY)
< FERRITE BEAD >		
FB753	1-414-813-11	FERRITE 0uH
< IC >		
IC751	6-701-681-01	IC RPM7140-V4 (TRV218E/TRV418/TRV418E)
< COIL >		
L751	1-419-353-21	INDUCTOR 10uH
< TRANSISTOR >		
Q751	6-550-091-01	TRANSISTOR 2SA2058 (TE85L)
Q752	8-729-028-26	TRANSISTOR 2SK1829 (TE85L)
Q753	8-729-023-22	TRANSISTOR 2SD2114K
< RESISTOR >		
R754	1-216-806-11	METAL CHIP 56 5% 1/10W
R755	1-216-806-11	METAL CHIP 56 5% 1/10W
R756	1-216-821-11	METAL CHIP 1K 5% 1/16W
R757	1-216-821-11	METAL CHIP 1K 5% 1/16W
R760	1-216-845-11	METAL CHIP 100K 5% 1/16W
R761	1-216-819-11	METAL CHIP 680 5% 1/16W
< SENSOR >		
SE751	1-803-042-31	SENSOR, ANGULAR VELOCITY (PITCH) (TRV318/TRV418/TRV418E)
SE752	1-803-042-41	SENSOR, ANGULAR VELOCITY (YAW) (TRV318/TRV418/TRV418E)
< VARISTOR >		
VDR751	1-801-862-11	VARISTOR, CHIP (1608)
< BOARD >		
A-7013-492-A	VC-303 BOARD, COMPLETE (SERVICE) (TRV118)	
A-7013-493-A	VC-303 BOARD, COMPLETE (SERVICE) (TRV218E)	
A-7013-494-A	VC-303 BOARD, COMPLETE (SERVICE) (TRV318/TRV418)	
A-7013-495-A	VC-303 BOARD, COMPLETE (SERVICE) (TRV418E)	

< CAPACITOR >		
C003	1-125-777-11	CERAMIC CHIP 0.1uF 10% 10V
C004	1-164-941-11	CERAMIC CHIP 0.0047uF 10% 16V
C006	1-125-777-11	CERAMIC CHIP 0.1uF 10% 10V
C007	1-107-819-11	CERAMIC CHIP 0.022uF 10% 16V
C008	1-164-942-11	CERAMIC CHIP 0.0068uF 10% 16V
C009	1-119-923-81	CERAMIC CHIP 0.047uF 10% 10V
C010	1-119-923-81	CERAMIC CHIP 0.047uF 10% 10V
C012	1-164-939-11	CERAMIC CHIP 0.0022uF 10% 50V
C013	1-125-777-11	CERAMIC CHIP 0.1uF 10% 10V
C014	1-164-937-11	CERAMIC CHIP 0.001uF 10% 50V
C015	1-125-777-11	CERAMIC CHIP 0.1uF 10% 10V
C016	1-125-837-91	CERAMIC CHIP 1uF 10% 6.3V

The components identified by mark

△

 or dotted line with mark

△

 are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque

△

 sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description				Ref. No.	Part No.	Description			
C018	1-127-988-81	CERAMIC CHIP	15000PF	10%	16V	C126	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C019	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	C127	1-164-937-11	CERAMIC CHIP	0.001uF	10%	50V
C020	1-164-941-11	CERAMIC CHIP	0.0047uF	10%	16V	C128	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C022	1-164-934-11	CERAMIC CHIP	330PF	10%	50V	C129	1-164-941-11	CERAMIC CHIP	0.0047uF	10%	16V
C023	1-165-908-91	CERAMIC CHIP	1uF	10%	10V	C130	1-100-249-11	CERAMIC CHIP	0.01uF	10%	16V
C025	1-165-875-11	CERAMIC CHIP	10uF	10%	10V	C134	1-117-863-11	CERAMIC CHIP	0.47uF	10%	6.3V
C028	1-127-573-11	CERAMIC CHIP	1uF	10%	16V	C151	1-125-837-91	CERAMIC CHIP	1uF	10%	6.3V
C030	1-125-838-11	CERAMIC CHIP	2.2uF	10%	6.3V	C152	1-127-760-11	CERAMIC CHIP	4.7uF	10%	6.3V
C031	1-115-566-11	CERAMIC CHIP	4.7uF	10%	10V	C155	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C032	1-127-573-11	CERAMIC CHIP	1uF	10%	16V	C156	1-164-392-11	CERAMIC CHIP	390PF	5%	50V
C033	1-164-506-11	CERAMIC CHIP	4.7uF		16V	C157	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C034	1-127-760-11	CERAMIC CHIP	4.7uF	10%	6.3V	C158	1-127-760-11	CERAMIC CHIP	4.7uF	10%	6.3V
C035	1-115-566-11	CERAMIC CHIP	4.7uF	10%	10V	C160	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C036	1-127-760-11	CERAMIC CHIP	4.7uF	10%	6.3V	C161	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C038	1-115-566-11	CERAMIC CHIP	4.7uF	10%	10V	C162	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C039	1-115-566-11	CERAMIC CHIP	4.7uF	10%	10V	C163	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C040	1-125-838-11	CERAMIC CHIP	2.2uF	10%	6.3V	C164	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C041	1-115-566-11	CERAMIC CHIP	4.7uF	10%	10V	C165	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C042	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	C166	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C044	1-119-750-11	TANTAL. CHIP	22uF	20%	6.3V	C168	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C045	1-119-749-11	TANTAL. CHIP	33uF	20%	4V	C170	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C046	1-125-838-11	CERAMIC CHIP	2.2uF	10%	6.3V	C171	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C047	1-115-566-11	CERAMIC CHIP	4.7uF	10%	10V	C172	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C049	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V	C173	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C050	1-119-750-11	TANTAL. CHIP	22uF	20%	6.3V	C174	1-117-863-11	CERAMIC CHIP	0.47uF	10%	6.3V
C051	1-125-837-91	CERAMIC CHIP	1uF	10%	6.3V	C175	1-125-837-91	CERAMIC CHIP	1uF	10%	6.3V
C052	1-117-720-11	CERAMIC CHIP	4.7uF		10V	C176	1-125-837-91	CERAMIC CHIP	1uF	10%	6.3V
C053	1-164-506-11	CERAMIC CHIP	4.7uF		16V	C177	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C055	1-164-505-11	CERAMIC CHIP	2.2uF		16V	C178	1-164-938-11	CERAMIC CHIP	0.0015uF	10%	50V
C056	1-127-760-11	CERAMIC CHIP	4.7uF	10%	6.3V	C182	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C057	1-164-505-11	CERAMIC CHIP	2.2uF		16V	C184	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C059	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V	C185	1-125-837-91	CERAMIC CHIP	1uF	10%	6.3V
C060	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V	C186	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C061	1-115-566-11	CERAMIC CHIP	4.7uF	10%	10V	C187	1-100-252-11	CERAMIC CHIP	0.1uF	10%	6.3V
C062	1-115-566-11	CERAMIC CHIP	4.7uF	10%	10V	C190	1-125-837-91	CERAMIC CHIP	1uF	10%	6.3V
C063	1-115-566-11	CERAMIC CHIP	4.7uF	10%	10V	C192	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C065	1-127-760-11	CERAMIC CHIP	4.7uF	10%	6.3V	C195	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C066	1-115-566-11	CERAMIC CHIP	4.7uF	10%	10V	C202	1-164-856-81	CERAMIC CHIP	18PF	5%	50V
C069	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C272	1-164-937-11	CERAMIC CHIP	0.001uF	10%	50V
C101	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V	C276	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V
C102	1-104-752-11	TANTAL. CHIP	33uF	20%	6.3V	C279	1-127-760-11	CERAMIC CHIP	4.7uF	10%	6.3V
C103	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V	C280	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C104	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V	C281	1-125-837-91	CERAMIC CHIP	1uF	10%	6.3V
C106	1-107-819-11	CERAMIC CHIP	0.022uF	10%	16V	C282	1-164-937-11	CERAMIC CHIP	0.001uF	10%	50V
C107	1-107-819-11	CERAMIC CHIP	0.022uF	10%	16V	C283	1-164-848-11	CERAMIC CHIP	8PF	0.5PF	50V
C108	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V	C284	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
C109	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V	C285	1-164-937-11	CERAMIC CHIP	0.001uF	10%	50V
C110	1-164-874-11	CERAMIC CHIP	100PF	5%	50V	C286	1-125-837-91	CERAMIC CHIP	1uF	10%	6.3V
C111	1-164-878-11	CERAMIC CHIP	150PF	5%	16V	C287	1-125-837-91	CERAMIC CHIP	1uF	10%	6.3V
C112	1-164-872-11	CERAMIC CHIP	82PF	5%	50V	C288	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C113	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	C290	1-125-837-91	CERAMIC CHIP	1uF	10%	6.3V
C114	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	C291	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C115	1-164-874-11	CERAMIC CHIP	100PF	5%	50V	C292	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V
C116	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V	C293	1-164-935-11	CERAMIC CHIP	470PF	10%	50V
C117	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V	C294	1-125-837-91	CERAMIC CHIP	1uF	10%	6.3V
C119	1-127-760-11	CERAMIC CHIP	4.7uF	10%	6.3V	C295	1-125-837-91	CERAMIC CHIP	1uF	10%	6.3V
C121	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V	C296	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C125	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V						

CCD-TRV118/TRV218E/TRV318/TRV418/TRV418E

VC-303

Ref. No.	Part No.	Description			
C297	1-104-847-11	TANTAL. CHIP	22uF	20%	4V
C300	1-127-861-11	CERAMIC CHIP	2.2uF	10%	16V
C301	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C302	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C303	1-164-941-11	CERAMIC CHIP	0.0047uF	10%	16V
C304	1-127-760-11	CERAMIC CHIP	4.7uF	10%	6.3V
C305	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C306	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C307	1-164-935-11	CERAMIC CHIP	470PF	10%	50V
C308	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C309	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V
C310	1-165-708-11	ELECT	47uF	20%	6.3V
C311	1-164-937-11	CERAMIC CHIP	0.001uF	10%	50V
C312	1-117-863-11	CERAMIC CHIP	0.47uF	10%	6.3V
C313	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C315	1-164-939-11	CERAMIC CHIP	0.0022uF	10%	50V
C318	1-127-760-11	CERAMIC CHIP	4.7uF	10%	6.3V
C319	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C352	1-124-779-00	ELECT CHIP	10uF	20%	16V
C353	1-127-760-11	CERAMIC CHIP	4.7uF	10%	6.3V
C354	1-124-779-00	ELECT CHIP	10uF	20%	16V
C357	1-124-778-00	ELECT CHIP	22uF	20%	6.3V
C359	1-124-779-00	ELECT CHIP	10uF	20%	16V
C360	1-125-837-91	CERAMIC CHIP	1uF	10%	6.3V
C361	1-164-941-11	CERAMIC CHIP	0.0047uF	10%	16V
C362	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C364	1-117-863-11	CERAMIC CHIP	0.47uF	10%	6.3V
C366	1-126-602-11	ELECT CHIP	3.3uF	20%	50V
C367	1-124-779-00	ELECT CHIP	10uF	20%	16V
C368	1-119-750-11	TANTAL. CHIP	22uF	20%	6.3V
C369	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V
C374	1-124-778-00	ELECT CHIP	22uF	20%	6.3V
C375	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C376	1-125-837-91	CERAMIC CHIP	1uF	10%	6.3V
C377	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C379	1-124-779-00	ELECT CHIP	10uF	20%	16V
C380	1-125-837-91	CERAMIC CHIP	1uF	10%	6.3V
C381	1-125-837-91	CERAMIC CHIP	1uF	10%	6.3V
C382	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C383	1-164-941-11	CERAMIC CHIP	0.0047uF	10%	6V
C384	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V
C385	1-125-837-91	CERAMIC CHIP	1uF	10%	6.3V
C386	1-125-837-91	CERAMIC CHIP	1uF	10%	6.3V
C387	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C388	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C389	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V
C390	1-164-937-11	CERAMIC CHIP	0.001uF	10%	50V
C391	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C392	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C394	1-117-863-11	CERAMIC CHIP	0.47uF	10%	6.3V
C395	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V
C396	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C397	1-164-870-11	CERAMIC CHIP	68PF	5%	50V
C399	1-117-863-11	CERAMIC CHIP	0.47uF	10%	6.3V
C400	1-125-837-91	CERAMIC CHIP	1uF	10%	6.3V
C401	1-125-837-91	CERAMIC CHIP	1uF	10%	6.3V
C402	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C403	1-164-850-11	CERAMIC CHIP	10PF	0.5PF	50V

Ref. No.	Part No.	Description			
C404	1-164-850-11	CERAMIC CHIP	10PF	0.5PF	50V
C405	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C406	1-218-977-11	RES-CHIP	100K	5%	1/16W
C406	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C407	1-218-977-11	RES-CHIP	100K	5%	1/16W
C407	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C408	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C410	1-100-249-11	CERAMIC CHIP	0.01uF	10%	16V
C451	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C453	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C454	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C455	1-107-819-11	CERAMIC CHIP	0.022uF	10%	16V
C456	1-107-819-11	CERAMIC CHIP	0.022uF	10%	16V
C458	1-126-603-11	ELECT CHIP	4.7uF	20%	35V
C459	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C460	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C461	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C462	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C463	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C465	1-164-941-11	CERAMIC CHIP	0.0047uF	10%	16V
C466	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C467	1-164-939-11	CERAMIC CHIP	0.0022uF	10%	50V
C468	1-164-935-11	CERAMIC CHIP	470PF	10%	50V
C469	1-164-939-11	CERAMIC CHIP	0.0022uF	10%	50V
C470	1-125-837-91	CERAMIC CHIP	1uF	10%	6.3V
C471	1-164-939-11	CERAMIC CHIP	0.0022uF	10%	50V
C472	1-164-941-11	CERAMIC CHIP	0.0047uF	10%	16V
C473	1-107-819-11	CERAMIC CHIP	0.022uF	10%	16V
C475	1-107-819-11	CERAMIC CHIP	0.022uF	10%	16V
C476	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C477	1-119-923-81	CERAMIC CHIP	0.047uF	10%	10V
C478	1-119-923-81	CERAMIC CHIP	0.047uF	10%	10V
C479	1-164-505-11	CERAMIC CHIP	2.2uF		16V
C480	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C481	1-164-937-11	CERAMIC CHIP	0.001uF	10%	50V
C482	1-164-937-11	CERAMIC CHIP	0.001uF	10%	50V
C483	1-164-935-11	CERAMIC CHIP	470PF	10%	50V
C484	1-164-935-11	CERAMIC CHIP	470PF	10%	50V
C485	1-119-923-81	CERAMIC CHIP	0.047uF	10%	10V
C486	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C487	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C489	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C490	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C491	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C492	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C493	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C503	1-126-607-11	ELECT CHIP	47uF	20%	4V
C504	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C505	1-100-249-11	CERAMIC CHIP	0.01uF	10%	16V
C506	1-100-249-11	CERAMIC CHIP	0.01uF	10%	16V
C507	1-100-249-11	CERAMIC CHIP	0.01uF	10%	16V
C511	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V

Note: Resistors are mounted to the location where C406, C407 are printed. (TRV118/TRV218E only)

Ref. No.	Part No.	Description
C512	1-164-943-11	CERAMIC CHIP 0.01uF 10% 16V
C513	1-107-819-11	CERAMIC CHIP 0.022uF 10% 16V
C514	1-164-941-11	CERAMIC CHIP 0.0047uF 10% 16V
C515	1-164-858-11	CERAMIC CHIP 22PF 5% 50V
C516	1-164-856-81	CERAMIC CHIP 18PF 5% 50V
C517	1-125-777-11	CERAMIC CHIP 0.1uF 10% 10V
C518	1-125-777-11	CERAMIC CHIP 0.1uF 10% 10V
C602	1-117-720-11	CERAMIC CHIP 4.7uF 10% 10V
C603	1-125-837-91	CERAMIC CHIP 1uF 10% 6.3V
C651	1-127-760-11	CERAMIC CHIP 4.7uF 10% 6.3V
C652	1-164-943-11	CERAMIC CHIP 0.01uF 10% 16V
C654	1-165-989-11	CERAMIC CHIP 10uF 10% 6.3V
C657	1-125-837-91	CERAMIC CHIP 1uF 10% 6.3V
C658	1-125-777-11	CERAMIC CHIP 0.1uF 10% 10V
C660	1-100-363-11	ELECT 220uF 20% 4V
C661	1-124-778-00	ELECT CHIP 22uF 20% 6.3V
C662	1-124-778-00	ELECT CHIP 22uF 20% 6.3V
C663	1-100-363-11	ELECT 220uF 20% 4V
C702	1-125-777-11	CERAMIC CHIP 0.1uF 10% 10V
C703	1-125-777-11	CERAMIC CHIP 0.1uF 10% 10V
C705	1-127-760-11	CERAMIC CHIP 4.7uF 10% 6.3V
C901	1-125-777-11	CERAMIC CHIP 0.1uF 10% 10V (TRV318/TRV418/TRV418E)
C902	1-125-777-11	CERAMIC CHIP 0.1uF 10% 10V (TRV318/TRV418/TRV418E)
C903	1-119-923-81	CERAMIC CHIP 0.047uF 10% 10V (TRV318/TRV418/TRV418E)
C904	1-119-923-81	CERAMIC CHIP 0.047uF 10% 10V (TRV318/TRV418/TRV418E)
C905	1-119-923-81	CERAMIC CHIP 0.047uF 10% 10V (TRV318/TRV418/TRV418E)
C906	1-100-161-31	ELECT CHIP 22uF 20% 4V (TRV318/TRV418/TRV418E)
C908	1-119-923-81	CERAMIC CHIP 0.047uF 10% 10V (TRV318/TRV418/TRV418E)
C910	1-100-161-31	ELECT CHIP 22uF 20% 4V (TRV318/TRV418/TRV418E)
C911	1-128-934-91	CERAMIC CHIP 0.33uF 20% 10V (TRV318/TRV418/TRV418E)
C913	1-127-760-11	CERAMIC CHIP 4.7uF 10% 6.3V (TRV318/TRV418/TRV418E)
< CONNECTOR >		
CN001	1-573-806-21	PIN, CONNECTOR (1.5MM) (SMD)6P
CN101	1-766-341-21	CONNECTOR, FFC/FPC 11P
CN271	1-779-331-11	CONNECTOR, FFC/FPC 14P
CN301	1-750-360-21	CONNECTOR, FFC/FPC (ZIF) 24P
CN701	1-794-998-31	PIN, CONNECTOR 20P
CN702	1-779-331-11	CONNECTOR, FFC/FPC 14P
CN703	1-816-179-11	CONNECTOR, FFC/FPC (ZIF) 22P
* CN704	1-580-055-21	PIN, CONNECTOR (SMD) 2P
CN705	1-779-334-11	CONNECTOR, FFC/FPC 20P
CN706	1-766-646-21	CONNECTOR, FFC/FPC 10P
CN707	1-766-658-21	CONNECTOR, FFC/FPC 22P
CN708	1-766-345-21	CONNECTOR, FFC/FPC 15P
CN711	1-750-076-21	CONNECTOR, FFC/FPC 12P
CN712	1-766-346-21	CONNECTOR, FFC/FPC 16P
CN713	1-779-333-11	CONNECTOR, FFC/FPC 18P

Ref. No.	Part No.	Description
< DIODE >		
D001	6-500-289-01	DIODE MAZW082H0LS0
D002	8-719-081-19	DIODE 1SS383 (T5RSONY1)
D003	8-719-421-27	DIODE MA728
D004	6-500-314-01	DIODE DAN222MT2L
D005	8-719-081-19	DIODE 1SS383 (T5RSONY1)
D151	8-719-081-25	DIODE JDV3C11 (TPH3)
D152	8-719-081-25	DIODE JDV3C11 (TPH3)
D272	8-719-082-63	DIODE 1SV329 (TPL3)
D301	8-719-988-61	DIODE 1SS355TE-17
D504	8-719-988-61	DIODE 1SS355TE-17
D505	8-719-988-61	DIODE 1SS355TE-17
D702	8-719-073-03	DIODE MA8082- (K8).S0
D703	6-500-289-01	DIODE MAZW082H0LS0
D704	6-500-507-01	DIODE TLAV1021 (T15SOY, F) (CHG)
D707	6-500-314-01	DIODE DAN222MT2L
< CONNECTOR PIN >		
ET101	1-815-032-21	PIN, CONNECTOR (CASE, SHIELD)
ET102	1-815-032-21	PIN, CONNECTOR (CASE, SHIELD)
< FUSE >		
△ F001	1-576-406-21	FUSE (1.4A/32V)
△ F002	1-576-406-21	FUSE (1.4A/32V)
△ F003	1-576-406-21	FUSE (1.4A/32V)
△ F004	1-576-406-21	FUSE (1.4A/32V)
< FERRITE BEAD >		
FB001	1-414-760-21	FERRITE 0uH
FB002	1-414-760-21	FERRITE 0uH
FB101	1-414-228-11	FERRITE 0uH
FB102	1-414-228-11	FERRITE 0uH
FB151	1-414-760-21	FERRITE 0uH
FB275	1-414-760-21	FERRITE 0uH
FB276	1-414-760-21	FERRITE 0uH
FB601	1-414-760-21	FERRITE 0uH
FB602	1-414-760-21	FERRITE 0uH
FB701	1-414-760-21	FERRITE 0uH
< IC >		
IC001	6-703-429-01	IC MB44A120APFV-G-BND-ERE1
IC101	8-752-093-69	IC CXA3265R-T4
IC151	8-759-670-78	IC HG75C012SFL
IC153	6-802-382-01	IC MB90099PFV-G-124-BND-ER
IC271	8-752-417-16	IC CXD2444AR
IC272	8-759-699-92	IC AD80013AJSTRL
IC301	8-759-637-96	IC uPD16877MA-6A5-E2
IC302	8-759-681-42	IC NJM12902V (TE2)
IC351	6-703-186-01	IC AN12984A-VB
IC401	8-759-445-94	IC AK6480AM-E2
IC402	6-802-550-01	IC MB91191RPFF-G-173-BND-ER
IC451	8-759-640-85	IC CXA8096R-TBM-E
IC452	8-759-431-41	IC LB1991V-TLM
IC503	8-752-933-74	IC CXP921048A-081R-T6
IC601	8-759-713-19	IC BH2222FV-E2
IC651	6-703-200-01	IC uPC5702GR-019-GJG-E2-A
IC704	8-759-697-22	IC NJM2380F (TE1)

The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque △ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

CCD-TRV118/TRV218E/TRV318/TRV418/TRV418E

VC-303

Ref. No.	Part No.	Description
IC901	8-759-489-19	IC uPC6756GR-8JG-E (TRV318/TRV418/TRV418E)
< COIL >		
L002	1-416-670-11	INDUCTOR 33uH
L003	1-416-669-11	INDUCTOR 22uH
L004	1-416-669-11	INDUCTOR 22uH
L005	1-416-669-11	INDUCTOR 22uH
L006	1-416-670-11	INDUCTOR 33uH
L007	1-416-669-11	INDUCTOR 22uH
L008	1-416-670-11	INDUCTOR 33uH
L009	1-469-524-91	INDUCTOR 4.7uH
L010	1-412-056-11	INDUCTOR 4.7uH
L012	1-469-524-91	INDUCTOR 4.7uH
L013	1-469-524-91	INDUCTOR 4.7uH
L014	1-469-524-91	INDUCTOR 4.7uH
L016	1-469-526-91	INDUCTOR 22uH
L017	1-469-524-91	INDUCTOR 4.7uH
L018	1-469-526-91	INDUCTOR 22uH
L019	1-410-389-31	INDUCTOR CHIP 47uH
L101	1-414-406-41	INDUCTOR 220uH
L102	1-400-197-11	INDUCTOR 12uH
L103	1-469-526-91	INDUCTOR 22uH
L104	1-414-406-41	INDUCTOR 220uH
L151	1-469-570-21	INDUCTOR 10uH
L152	1-469-570-21	INDUCTOR 10uH
L154	1-469-570-21	INDUCTOR 10uH
L155	1-469-570-21	INDUCTOR 10uH
L156	1-410-999-11	INDUCTOR 3.3uH
L271	1-469-570-21	INDUCTOR 10uH
L301	1-414-398-11	INDUCTOR 10uH
L303	1-469-570-21	INDUCTOR 10uH
L651	1-469-525-91	INDUCTOR 10uH
L901	1-469-570-21	INDUCTOR 10uH (TRV318/TRV418/TRV418E)
< TRANSISTOR >		
Q001	6-550-237-01	TRANSISTOR 2SC5658T2LQ/R
Q002	6-550-404-01	TRANSISTOR UPA1858GR-9JG-E2-A
Q004	8-729-101-07	TRANSISTOR 2SB798-DL
Q005	6-550-119-01	TRANSISTOR DTC144EMT2L
Q009	6-550-405-01	TRANSISTOR CPH5815-TL-E
Q010	6-550-405-01	TRANSISTOR CPH5815-TL-E
Q011	6-550-405-01	TRANSISTOR CPH5815-TL-E
Q012	6-550-405-01	TRANSISTOR CPH5815-TL-E
Q013	6-550-407-01	TRANSISTOR QS5U16TR
Q014	6-550-405-01	TRANSISTOR CPH5815-TL-E
Q015	6-550-405-01	TRANSISTOR CPH5815-TL-E
Q016	6-550-237-01	TRANSISTOR 2SC5658T2LQ/R
Q017	6-550-237-01	TRANSISTOR 2SC5658T2LQ/R
Q018	6-550-232-01	TRANSISTOR 2SA2029T2LQ/R
Q019	8-729-053-52	TRANSISTOR HN1C01FE-Y/GR (TPLR3)
Q020	6-550-237-01	TRANSISTOR 2SC5658T2LQ/R
Q021	8-729-053-54	TRANSISTOR HN1A01FE-Y/GR (TPLR3)
Q022	6-550-237-01	TRANSISTOR 2SC5658T2LQ/R
Q023	8-729-053-54	TRANSISTOR HN1A01FE-Y/GR (TPLR3)
Q024	8-729-101-07	TRANSISTOR 2SB798-DL
Q025	6-550-232-01	TRANSISTOR 2SA2029T2LQ/R

Ref. No.	Part No.	Description
Q026	8-729-053-52	TRANSISTOR HN1C01FE-Y/GR (TPLR3)
Q032	6-550-406-01	TRANSISTOR MCH3335-S-TL-E
Q101	8-729-047-19	TRANSISTOR 2SA1965-S-TL
Q102	6-550-232-01	TRANSISTOR 2SA2029T2LQ/R
Q103	8-729-054-48	TRANSISTOR UP04601008S0
Q105	6-550-119-01	TRANSISTOR DTC144EMT2L
Q107	6-550-240-01	TRANSISTOR DTA114TMT2L
Q151	8-729-054-48	TRANSISTOR UP04601008S0
Q159	8-729-053-54	TRANSISTOR HN1A01FE-Y/GR (TPLR3)
Q160	6-550-383-01	TRANSISITOR HN4A71FK (TE85R)
Q301	6-550-237-01	TRANSISTOR 2SC5658T2LQ/R
Q302	8-729-054-51	TRANSISTOR UP04116008S0
Q303	6-550-237-01	TRANSISTOR 2SC5658T2LQ/R
Q451	6-550-237-01	TRANSISTOR 2SC5658T2LQ/R
Q501	8-729-041-43	TRANSISTOR HN1L02FU (TE85R)
Q502	6-550-175-01	TRANSISTOR DTC143TMT2L
Q503	8-729-053-58	TRANSISTOR RN1904FE (TPLR3)
Q701	8-729-141-73	TRANSISTOR 2SC3624A-T1L15L
< RESISTOR >		
R001	1-218-953-11	RES-CHIP 1K 5% 1/16W
R004	1-218-961-11	RES-CHIP 4.7K 5% 1/16W
R007	1-218-957-11	RES-CHIP 2.2K 5% 1/16W
R008	1-218-977-11	RES-CHIP 100K 5% 1/16W
R012	1-220-200-81	RES-CHIP 30K 5% 1/16W
R013	1-218-978-11	METAL CHIP 120K 0.5% 1/16W
R014	1-208-715-11	METAL CHIP 22K 0.5% 1/16W
R015	1-218-989-11	RES-CHIP 1M 5% 1/16W
R016	1-208-709-11	METAL CHIP 12K 0.5% 1/16W
R019	1-218-961-11	RES-CHIP 4.7K 5% 1/16W
R020	1-208-715-11	METAL CHIP 22K 0.5% 1/16W
R022	1-218-970-11	RES-CHIP 27K 5% 1/16W
R023	1-218-954-11	RES-CHIP 1.2K 5% 1/16W
R024	1-218-963-11	RES-CHIP 6.8K 5% 1/16W
R025	1-218-971-11	RES-CHIP 33K 5% 1/16W
R026	1-216-295-91	SHORT CHIP 0
R029	1-218-964-11	RES-CHIP 8.2K 5% 1/16W
R031	1-218-965-11	RES-CHIP 10K 5% 1/16W
R035	1-218-935-11	RES-CHIP 33 5% 1/16W
R040	1-218-953-11	RES-CHIP 1K 5% 1/16W
R047	1-218-959-11	RES-CHIP 3.3K 5% 1/16W
R049	1-218-969-11	RES-CHIP 22K 5% 1/16W
R053	1-218-990-11	SHORT CHIP 0
R056	1-218-990-11	SHORT CHIP 0
R066	1-218-966-11	RES-CHIP 12K 5% 1/16W
R067	1-218-977-11	RES-CHIP 100K 5% 1/16W
R068	1-218-973-11	RES-CHIP 47K 5% 1/16W
R069	1-218-977-11	RES-CHIP 100K 5% 1/16W
R071	1-218-977-11	RES-CHIP 100K 5% 1/16W
R072	1-218-969-11	RES-CHIP 22K 5% 1/16W
R073	1-218-969-11	RES-CHIP 22K 5% 1/16W
R074	1-208-935-11	METAL CHIP 100K 0.5% 1/16W
R075	1-208-721-11	METAL CHIP 39K 0.5% 1/16W
R076	1-208-908-11	METAL CHIP 7.5K 0.5% 1/16W
R077	1-208-935-11	METAL CHIP 100K 0.5% 1/16W
R078	1-208-707-11	METAL CHIP 10K 0.5% 1/16W
R079	1-208-943-11	METAL CHIP 220K 0.5% 1/16W
R080	1-218-977-11	RES-CHIP 100K 5% 1/16W

Ref. No.	Part No.	Description				Ref. No.	Part No.	Description			
R081	1-218-973-11	RES-CHIP	47K	5%	1/16W	R208	1-218-953-11	RES-CHIP	1K	5%	1/16W
R082	1-218-977-11	RES-CHIP	100K	5%	1/16W						
R083	1-218-961-11	RES-CHIP	4.7K	5%	1/16W	R220	1-218-990-11	SHORT CHIP	0		
R084	1-218-990-11	SHORT CHIP	0			R221	1-218-990-11	SHORT CHIP	0		
R085	1-208-943-11	METAL CHIP	220K	0.5%	1/16W	R252	1-218-990-11	SHORT CHIP	0		
R086	1-208-931-11	METAL CHIP	68K	0.5%	1/16W	R274	1-218-977-11	RES-CHIP	100K	5%	1/16W
R087	1-218-963-11	RES-CHIP	6.8K	5%	1/16W	R280	1-218-989-11	RES-CHIP	1M	5%	1/16W
R088	1-208-707-11	METAL CHIP	10K	0.5%	1/16W	R281	1-218-985-11	RES-CHIP	470K	5%	1/16W
R089	1-216-789-11	METAL CHIP	2.2	5%	1/16W	R295	1-218-990-11	SHORT CHIP	0		
R099	1-216-797-11	METAL CHIP	10	5%	1/16W	R296	1-216-864-11	METAL CHIP	0	5%	1/16W
R101	1-218-936-11	RES-CHIP	39	5%	1/16W	R297	1-218-990-11	SHORT CHIP	0		
						R298	1-216-864-11	METAL CHIP	0	5%	1/16W
R101	1-218-938-11	RES-CHIP	56	5%	1/16W	R299	1-218-990-11	SHORT CHIP	0		
						R300	1-216-864-11	METAL CHIP	0	5%	1/16W
						R301	1-218-973-11	RES-CHIP	47K	5%	1/16W
R102	1-218-950-11	RES-CHIP	560	5%	1/16W	R304	1-218-953-11	RES-CHIP	1K	5%	1/16W
R105	1-218-941-81	RES-CHIP	100	5%	1/16W	R306	1-208-635-11	RES-CHIP	10	5%	1/16W
R106	1-218-970-11	RES-CHIP	27K	5%	1/16W						
R107	1-218-957-11	RES-CHIP	2.2K	5%	1/16W	R307	1-218-989-11	RES-CHIP	1M	5%	1/16W
R108	1-218-961-11	RES-CHIP	4.7K	5%	1/16W	R308	1-218-957-11	RES-CHIP	2.2K	5%	1/16W
						R309	1-218-965-11	RES-CHIP	10K	5%	1/16W
R109	1-218-970-11	RES-CHIP	27K	5%	1/16W	R310	1-218-981-11	RES-CHIP	220K	5%	1/16W
R110	1-218-945-11	RES-CHIP	220	5%	1/16W	R311	1-218-985-11	RES-CHIP	470K	5%	1/16W
R111	1-218-945-11	RES-CHIP	220	5%	1/16W						
R112	1-218-946-11	RES-CHIP	270	5%	1/16W	R312	1-218-985-11	RES-CHIP	470K	5%	1/16W
R113	1-218-945-11	RES-CHIP	220	5%	1/16W	R313	1-218-957-11	RES-CHIP	2.2K	5%	1/16W
						R314	1-218-963-11	RES-CHIP	6.8K	5%	1/16W
R115	1-218-971-11	RES-CHIP	33K	5%	1/16W	R316	1-218-985-11	RES-CHIP	470K	5%	1/16W
R116	1-218-958-11	RES-CHIP	2.7K	5%	1/16W	R319	1-218-947-11	RES-CHIP	330	5%	1/16W
R117	1-218-958-11	RES-CHIP	2.7K	5%	1/16W						
R118	1-208-939-11	METAL CHIP	150K	0.5%	1/16W	R321	1-218-953-11	RES-CHIP	1K	5%	1/16W
R154	1-218-965-11	RES-CHIP	10K	5%	1/16W	R322	1-218-965-11	RES-CHIP	10K	5%	1/16W
						R323	1-218-973-11	RES-CHIP	47K	5%	1/16W
R155	1-218-954-11	RES-CHIP	1.2K	5%	1/16W	R351	1-218-953-11	RES-CHIP	1K	5%	1/16W
R166	1-218-990-11	SHORT CHIP	0			R364	1-218-973-11	RES-CHIP	47K	5%	1/16W
R168	1-218-962-11	RES-CHIP	5.6K	5%	1/16W						
R169	1-218-953-11	RES-CHIP	1K	5%	1/16W	R368	1-218-979-11	RES-CHIP	150K	5%	1/16W
R170	1-218-963-11	RES-CHIP	6.8K	5%	1/16W	R372	1-218-973-11	RES-CHIP	47K	5%	1/16W
						R373	1-218-985-11	RES-CHIP	470K	5%	1/16W
R171	1-218-949-11	RES-CHIP	470	5%	1/16W	R379	1-218-952-11	RES-CHIP	820	5%	1/16W
R172	1-218-941-81	RES-CHIP	100	5%	1/16W	R382	1-218-973-11	RES-CHIP	47K	5%	1/16W
R173	1-218-972-11	RES-CHIP	39K	5%	1/16W						
R174	1-218-952-11	RES-CHIP	820	5%	1/16W	R383	1-218-957-11	RES-CHIP	2.2K	5%	1/16W
R175	1-218-959-11	RES-CHIP	3.3K	5%	1/16W	R384	1-218-964-11	RES-CHIP	8.2K	5%	1/16W
						R385	1-218-961-11	RES-CHIP	4.7K	5%	1/16W
R177	1-218-966-11	RES-CHIP	12K	5%	1/16W	R387	1-218-965-11	RES-CHIP	10K	5%	1/16W
R178	1-218-949-11	RES-CHIP	470	5%	1/16W	R388	1-218-990-11	SHORT CHIP	0		
R179	1-218-945-11	RES-CHIP	220	5%	1/16W						
R180	1-218-962-11	RES-CHIP	5.6K	5%	1/16W	R389	1-216-295-91	SHORT CHIP	0		
R181	1-218-966-11	RES-CHIP	12K	5%	1/16W	R390	1-218-990-11	SHORT CHIP	0		
						R401	1-218-953-11	RES-CHIP	1K	5%	1/16W
R182	1-218-946-11	RES-CHIP	270	5%	1/16W	R402	1-218-986-11	RES-CHIP	560K	5%	1/16W
R183	1-218-946-11	RES-CHIP	270	5%	1/16W	R404	1-218-977-11	RES-CHIP	100K	5%	1/16W
R184	1-218-966-11	RES-CHIP	12K	5%	1/16W						
R185	1-218-966-11	RES-CHIP	12K	5%	1/16W	R417	1-218-957-11	RES-CHIP	2.2K	5%	1/16W
R186	1-218-946-11	RES-CHIP	270	5%	1/16W	R428	1-218-977-11	RES-CHIP	100K	5%	1/16W
						R441	1-218-977-11	RES-CHIP	100K	5%	1/16W
R189	1-218-966-11	RES-CHIP	12K	5%	1/16W	R444	1-218-977-11	RES-CHIP	100K	5%	1/16W
R190	1-218-946-11	RES-CHIP	270	5%	1/16W	R445	1-218-977-11	RES-CHIP	100K	5%	1/16W
R193	1-218-989-11	RES-CHIP	1M	5%	1/16W						
R195	1-218-967-11	RES-CHIP	15K	5%	1/16W	R451	1-218-973-11	RES-CHIP	47K	5%	1/16W
R196	1-218-967-11	RES-CHIP	15K	5%	1/16W	R452	1-218-983-11	RES-CHIP	330K	5%	1/16W
						R457	1-218-949-11	RES-CHIP	470	5%	1/16W
R197	1-218-962-11	RES-CHIP	5.6K	5%	1/16W	R458	1-218-446-11	METAL CHIP	1	5%	1/10W
R198	1-218-945-11	RES-CHIP	220	5%	1/16W	R459	1-218-446-11	METAL CHIP	1	5%	1/10W
R199	1-218-953-11	RES-CHIP	1K	5%	1/16W						
R200	1-218-965-11	RES-CHIP	10K	5%	1/16W	R460	1-218-446-11	METAL CHIP	1	5%	1/10W

CCD-TRV118/TRV218E/TRV318/TRV418/TRV418E

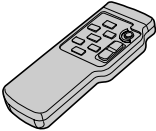
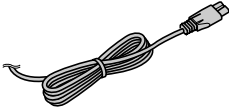
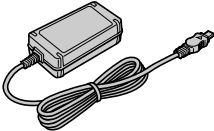
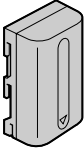
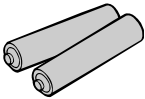
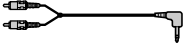
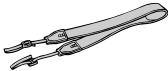
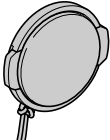


VC-303

Ref. No.	Part No.	Description			
R461	1-216-808-11	METAL CHIP	82	5%	1/16W
R464	1-218-949-11	RES-CHIP	470	5%	1/16W
R465	1-218-961-11	RES-CHIP	4.7K	5%	1/16W
R466	1-218-965-11	RES-CHIP	10K	5%	1/16W
					(TRV218E/TRV418E)
R466	1-218-990-11	SHORT CHIP	0		(TRV118/TRV318/TRV418)
R467	1-218-967-11	RES-CHIP	15K	5%	1/16W
					(TRV118/TRV318/TRV418)
R467	1-218-973-11	RES-CHIP	47K	5%	1/16W
					(TRV218E/TRV418E)
R468	1-218-959-11	RES-CHIP	3.3K	5%	1/16W
R469	1-218-976-11	RES-CHIP	82K	5%	1/16W
R470	1-218-965-11	RES-CHIP	10K	5%	1/16W
					(TRV218E/TRV418E)
R470	1-218-990-11	SHORT CHIP	0		(TRV118/TRV318/TRV418)
R471	1-218-446-11	METAL CHIP	1	5%	1/10W
R472	1-218-446-11	METAL CHIP	1	5%	1/10W
R474	1-218-973-11	RES-CHIP	47K	5%	1/16W
R480	1-218-967-11	RES-CHIP	15K	5%	1/16W
					(TRV118/TRV318/TRV418)
R480	1-218-973-11	RES-CHIP	47K	5%	1/16W
					(TRV218E/TRV418E)
R481	1-218-961-11	RES-CHIP	4.7K	5%	1/16W
R482	1-218-989-11	RES-CHIP	1M	5%	1/16W
R483	1-218-972-11	RES-CHIP	39K	5%	1/16W
R484	1-216-789-11	METAL CHIP	2.2	5%	1/16W
R485	1-216-789-11	METAL CHIP	2.2	5%	1/16W
R486	1-216-789-11	METAL CHIP	2.2	5%	1/16W
R518	1-208-943-11	METAL CHIP	220K	0.5%	1/16W
R519	1-208-943-11	METAL CHIP	220K	0.5%	1/16W
R520	1-218-985-11	METAL CHIP	470K	0.5%	1/16W
R521	1-218-985-11	METAL CHIP	470K	0.5%	1/16W
R525	1-218-953-11	RES-CHIP	1K	5%	1/16W
R542	1-218-973-11	RES-CHIP	47K	5%	1/16W
R543	1-218-986-11	RES-CHIP	560K	5%	1/16W
R552	1-219-570-11	METAL CHIP	10M	5%	1/10W
R554	1-218-977-11	RES-CHIP	100K	5%	1/16W
R558	1-218-949-11	RES-CHIP	470	5%	1/16W
R561	1-218-957-11	RES-CHIP	2.2K	5%	1/16W
R562	1-218-953-11	RES-CHIP	1K	5%	1/16W
R567	1-218-959-11	RES-CHIP	3.3K	5%	1/16W
R572	1-218-977-11	RES-CHIP	100K	5%	1/16W
R573	1-218-953-11	RES-CHIP	1K	5%	1/16W
R574	1-218-953-11	RES-CHIP	1K	5%	1/16W
R575	1-208-707-11	METAL CHIP	10K	0.5%	1/16W
R576	1-216-864-11	METAL CHIP	0	5%	1/16W
R651	1-218-990-11	SHORT CHIP	0		
R658	1-208-719-11	METAL CHIP	33K	0.5%	1/16W
R659	1-218-990-11	SHORT CHIP	0		
R701	1-218-955-11	RES-CHIP	1.5K	5%	1/16W
R702	1-218-957-11	RES-CHIP	2.2K	5%	1/16W
R703	1-218-965-11	RES-CHIP	10K	5%	1/16W
					(TRV318/TRV418)
R703	1-218-969-11	RES-CHIP	22K	5%	1/16W
					(TRV418E)
R703	1-218-977-11	RES-CHIP	100K	5%	1/16W
					(TRV218E)
R704	1-218-965-11	RES-CHIP	10K	5%	1/16W
					(TRV118)

Ref. No.	Part No.	Description			
R704	1-218-969-11	RES-CHIP	22K	5%	1/16W
					(TRV218E)
R704	1-218-977-11	RES-CHIP	100K	5%	1/16W
					(TRV418E)
R707	1-218-954-11	RES-CHIP	1.2K	5%	1/16W
R708	1-218-990-11	SHORT CHIP	0		
R711	1-218-943-11	RES-CHIP	150	5%	1/16W
R712	1-218-941-81	RES-CHIP	100	5%	1/16W
R713	1-218-945-11	RES-CHIP	220	5%	1/16W
R714	1-208-687-11	METAL CHIP	1.5K	0.5%	1/16W
R715	1-208-699-11	METAL CHIP	4.7K	0.5%	1/16W
R716	1-218-990-11	SHORT CHIP	0		
R905	1-218-989-11	RES-CHIP	1M	5%	1/16W
					(TRV318/TRV418/TRV418E)
R906	1-218-965-11	RES-CHIP	10K	5%	1/16W
					(TRV318/TRV418/TRV418E)
R907	1-218-965-11	RES-CHIP	10K	5%	1/16W
					(TRV318/TRV418/TRV418E)
R908	1-218-989-11	RES-CHIP	1M	5%	1/16W
					(TRV318/TRV418/TRV418E)
R909	1-218-967-11	RES-CHIP	15K	5%	1/16W
					(TRV318/TRV418/TRV418E)
< COMPOSITION CIRCUIT BLOCK >					
RB101	1-234-379-21	RES, NETWORK 22K x4 (1005)			
RB102	1-234-383-21	RES, NETWORK 470K x4 (1005)			
RB151	1-234-378-21	RES, NETWORK 10K x4 (1005)			
RB152	1-234-376-21	RES, NETWORK 2.2K x4 (1005)			
RB153	1-234-376-21	RES, NETWORK 2.2K x4 (1005)			
RB302	1-234-379-21	RES, NETWORK 22K x4 (1005)			
RB303	1-234-375-21	RES, NETWORK 1K x4 (1005)			
RB401	1-234-381-21	RES, NETWORK 100K x4 (1005)			
RB402	1-234-377-21	RES, NETWORK 4.7K x4 (1005)			
					(TRV318/TRV418/TRV418E)
RB403	1-234-378-21	RES, NETWORK 10K x4 (1005)			
RB404	1-234-376-21	RES, NETWORK 2.2K x4 (1005)			
RB407	1-234-380-21	RES, NETWORK 47K x4 (1005)			
RB409	1-234-380-21	RES, NETWORK 47K x4 (1005)			
RB451	1-234-381-21	RES, NETWORK 100K x4 (1005)			
RB452	1-234-378-21	RES, NETWORK 10K x4 (1005)			
RB501	1-234-375-21	RES, NETWORK 1K x4 (1005)			
RB502	1-234-383-21	RES, NETWORK 470K x4 (1005)			
RB503	1-234-383-21	RES, NETWORK 470K x4 (1005)			
RB504	1-234-375-21	RES, NETWORK 1K x4 (1005)			
RB505	1-234-380-21	RES, NETWORK 47K x4 (1005)			
RB506	1-234-375-21	RES, NETWORK 1K x4 (1005)			
RB507	1-234-376-21	RES, NETWORK 2.2K x4 (1005)			
RB508	1-234-384-11	RES, NETWORK 1M x4 (1005)			
RB509	1-234-382-21	RES, NETWORK 220K x4 (1005)			
RB510	1-234-375-21	RES, NETWORK 1K x4 (1005)			
RB511	1-234-383-21	RES, NETWORK 470K x4 (1005)			
RB514	1-234-381-21	RES, NETWORK 100K x4 (1005)			
RB651	1-234-702-11	RES, NETWORK 68 x4 (1005)			
RB701	1-234-400-21	CONDUCTOR, NETWORK (2010)			
RB702	1-234-400-21	CONDUCTOR, NETWORK (2010)			
RB901	1-234-379-21	RES, NETWORK 22K x4 (1005)			
					(TRV318/TRV418/TRV418E)

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>
< VARISTOR >		
VDR701	1-803-974-21	VARISTOR, CHIP (1608)
VDR703	1-803-974-21	VARISTOR, CHIP (1608)
VDR704	1-803-974-21	VARISTOR, CHIP (1608)
< VIBRATOR >		
X271	1-760-320-11	VIBRATOR, CRYSTAL (28.636363MHz) (TRV118/TRV318/TRV418)
X271	1-760-321-11	VIBRATOR, CRYSTAL (28.375MHz) (TRV218E/TRV418E)
X401	1-760-655-41	VIBRATOR, CRYSTAL (20MHz)
X501	1-767-980-22	VIBRATOR, CERAMIC (20MHz)
X502	1-760-458-21	VIBRATOR, CRYSTAL (32.768kHz)

Checking supplied accessories.

 <p>Wireless Remote Commander (1) RMT-708 1-467-574-23 (TRV218E/TRV418/TRV418E)</p>	 <p>Mains lead (1) ⚠ 1-575-131-11 (E) ⚠ 1-690-827-11 (AEP, EE, NE) ⚠ 1-696-819-21 (AUS) ⚠ 1-775-843-52 (UK) ⚠ 1-776-985-11 (KR) ⚠ 1-783-374-11 (HK) ⚠ 1-790-107-22 (US, CND)</p>	 <p>AC-L15A/L15B AC Adaptor (1) ⚠ 1-477-533-31</p>	 <p>NP-FM30 battery pack (1) ⚠ A-7096-387-A (US, CND) ⚠ A-7096-388-B (EXCEPT US, CND)</p>
 <p>R6 (Size AA) battery for Remote Commander (2)</p>	<p>Other accessories</p> <p>3-079-467-11 OPERATING INSTRUCTIONS (ENGLISH) (TRV118/TRV318/TRV418: E) 3-079-467-21 OPERATING INSTRUCTIONS (FRENCH) (TRV118: CND/TRV318: CND) 3-079-467-31 OPERATING INSTRUCTIONS (SPANISH, PORTUGUESE) (TRV118: E/TRV318: E/TRV418: E) 3-079-467-41 OPERATING INSTRUCTIONS (TRADITIONAL CHINESE) (TRV418: E) 3-079-467-51 OPERATING INSTRUCTIONS (KOREAN) (TRV418: KR) 3-079-467-61 OPERATING INSTRUCTIONS (ARABIC) (TRV418: E) 3-079-468-11 OPERATING INSTRUCTIONS (ENGLISH, FRENCH) (TRV218E: AEP, UK, E, HK, AUS/TRV418E: AEP, E, AUS) 3-079-468-21 OPERATING INSTRUCTIONS (SPANISH, PORTUGUESE) (TRV218E: AEP/TRV418E: AEP) 3-079-468-31 OPERATING INSTRUCTIONS (ITALIAN, GREECE) (TRV218E: AEP/TRV418E: AEP) 3-079-468-41 OPERATING INSTRUCTIONS (GERMAN, DUTCH) (TRV218E: AEP/TRV418E: AEP) 3-079-468-51 OPERATING INSTRUCTIONS (RUSSIAN, SWEDISH) (TRV218E: NE, E/TRV418E: NE, E) 3-079-468-61 OPERATING INSTRUCTIONS (FINISH, DANISH) (TRV218E: NE/TRV418E: NE) 3-079-468-71 OPERATING INSTRUCTIONS (POLISH, CZECH) (TRV218E: EE/TRV418E: EE) 3-079-468-81 OPERATING INSTRUCTIONS (SLOVAKIAN, HUNGARIAN) (TRV218E: EE/TRV418E: EE) 3-079-468-91 OPERATING INSTRUCTIONS (ARABIC, PERUSSIAN) (TRV218E: E/TRV418E: E) 3-079-469-11 OPERATING INSTRUCTIONS (TRADITIONAL CHINESE) (TRV218E: HK) 3-079-469-21 OPERATING INSTRUCTIONS (SIMPLIFIED CHINESE) (TRV218E: E/TRV418E: E)</p>	 <p>A/V connecting cable (1) 1-783-738-91 (AEP, UK, EE, NE) 1-824-009-31 (US, CND, E, HK, KR, AUS)</p>	 <p>Shoulder strap (1) 3-987-015-01</p>
 <p>Lens cap (1) X-3952-971-1</p>	 <p>21-pin adaptor (1) 1-770-783-21 (AEP, UK, EE, NE)</p>	 <p>Adaptor, conversion 2P ⚠ 1-569-008-12 (E, HK)</p>	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.